

LUMINAIRE PHOTOMETRIC TEST REPORT

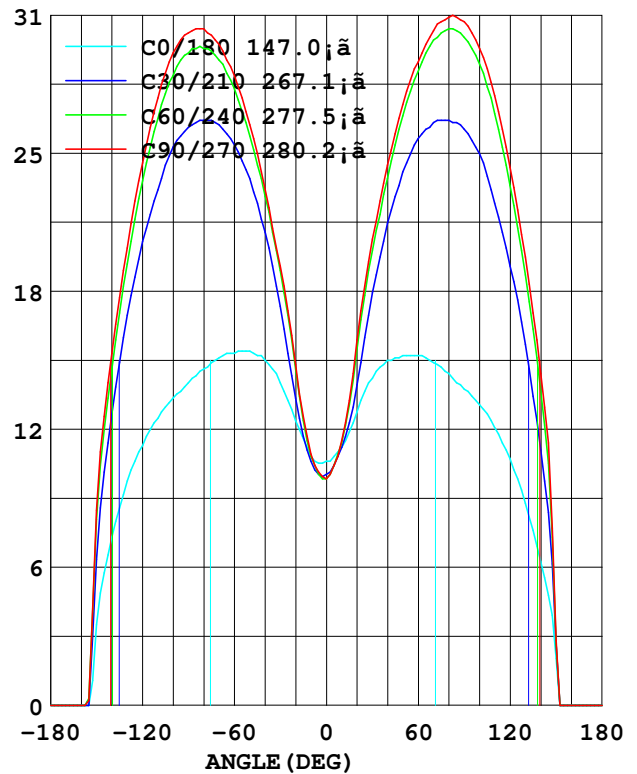
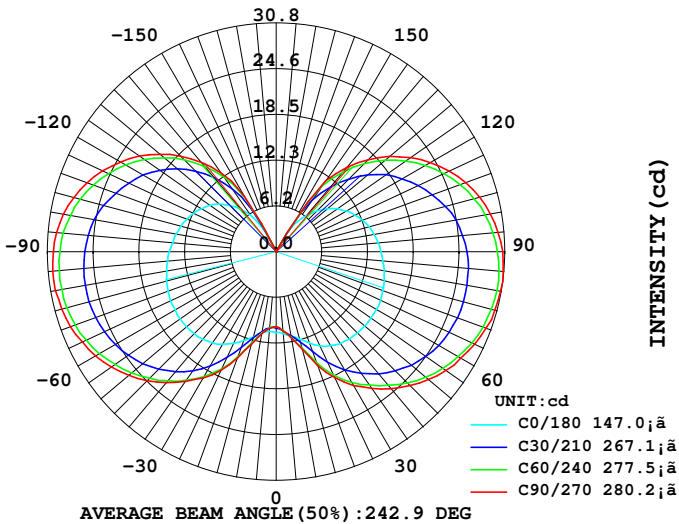
Report number: GO2018-124

MANUFACTURER: IDEAL LUX SRL	Address: Via Taglio Destro 32 - Mirano (VE)	
NAME: 189000	TYPE: light bulb G9	WEIGHT:
SPECIFICATION:	DIMENSION: D.17 H.45	SERIAL No.:

DATA OF LAMP		Imax (cd)	31.60	S/MH (C0/180)	2.02
MODEL	189000	EFFICIENCY (%)	100.0	S/MH (C90/270)	2.85
NOMINAL POWER (W)	3	TOTAL FLUX (lm)	248.13	Voltage (V)	229.6
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	97.3	Current (A)	0.012
NOMINAL FLUX (lm)	248.1	$\eta$ up (%)	42.9	Power (W)	2.550
LAMPS QUANTITY	1	$\eta$ down (%)	57.1	Power Factor (PF)	0.874
TEST VOLTAGE (V)	229.7	Effective Flux (lm)	248.1	EEL	0.108

LUMINOUS INTENSITY DISTRIBUTION

LUMINOUS INTENSITY DISTRIBUTION



Test System: LSG-1800  
 Temperature: 25.3 DEG  
 Operators: G  
 Test Date: 05-17-2018

Test Set: 5.0 deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 10.000 m  
 Remarks: G9 LED

**ZONAL FLUX DIAGRAM**

Report number: GO2018-124

MANUFACTURER: IDEAL LUX SRL	Address: Via Taglio Destro 32 - Mirano (VE)	
NAME: 189000	TYPE: light bulb G9	WEIGHT:
SPECIFICATION:	DIMENSION: D.17 H.45	SERIAL No.:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	zone	total
5.0	10.80	10.40	10.40	10.30	11.10	10.59	10.70	10.30	0- 5	0.246	0.246
10.0	11.10	11.10	11.20	10.90	11.50	11.50	11.80	10.90	5- 10	0.769	1.014
15.0	11.90	12.60	12.90	12.00	12.20	12.80	13.60	12.20	10- 15	1.390	2.405
20.0	12.70	14.70	15.20	13.70	13.09	14.80	16.30	14.00	15- 20	2.183	4.589
25.0	13.60	17.10	17.60	15.60	14.00	17.40	18.70	16.00	20- 25	3.183	7.772
30.0	14.40	19.20	19.60	17.50	14.59	19.69	20.80	18.50	25- 30	4.311	12.08
35.0	15.00	21.00	21.29	19.20	15.09	21.50	22.50	20.60	30- 35	5.494	17.57
40.0	15.40	22.70	23.00	20.60	15.40	23.10	24.10	22.20	35- 40	6.697	24.27
45.0	15.60	24.10	24.60	22.00	15.50	24.60	25.50	23.60	40- 45	7.896	32.17
50.0	15.80	25.40	25.90	23.19	15.60	25.79	26.80	24.79	45- 50	9.058	41.22
55.0	15.80	26.49	27.10	24.20	15.60	27.00	27.90	25.79	50- 55	10.14	51.37
60.0	15.70	27.29	28.09	24.90	15.60	27.79	28.70	26.60	55- 60	11.13	62.51
65.0	15.70	28.00	28.79	25.50	15.50	28.50	29.49	27.20	60- 65	11.98	74.49
70.0	15.50	28.40	29.49	25.90	15.29	29.10	30.10	27.50	65- 70	12.69	87.18
75.0	15.29	28.70	29.90	26.10	15.09	29.40	30.50	27.79	70- 75	13.24	100.4
80.0	15.00	28.79	30.19	26.10	14.80	29.69	30.70	27.79	75- 80	13.61	114.0
85.0	14.70	28.70	30.19	26.00	14.40	29.60	30.70	27.79	80- 85	13.81	127.8
90.0	14.40	28.50	30.00	25.70	14.10	29.40	30.50	27.59	85- 90	13.82	141.6
95.0	14.00	28.00	29.69	25.29	13.79	28.90	30.00	27.20	90- 95	13.65	155.3
100.0	13.70	27.29	29.10	24.60	13.40	28.29	29.30	26.60	95-100	13.27	168.6
105.0	13.30	26.30	28.20	23.70	13.00	27.40	28.40	25.70	100-105	12.70	181.3
110.0	12.80	25.09	27.10	22.50	12.40	26.19	27.20	24.60	105-110	11.93	193.2
115.0	12.30	23.80	25.79	21.40	11.70	24.79	25.70	23.50	110-115	11.01	204.2
120.0	11.59	22.30	24.20	20.00	11.00	23.19	24.00	22.10	115-120	9.973	214.2
125.0	10.90	20.50	22.50	18.29	10.10	21.50	22.10	20.40	120-125	8.819	223.0
130.0	10.00	18.50	20.40	16.40	9.000	19.40	20.00	18.50	125-130	7.573	230.6
135.0	8.800	16.20	18.19	14.20	7.800	17.00	17.50	16.20	130-135	6.265	236.9
140.0	7.500	13.70	15.70	11.90	6.400	14.30	14.80	13.50	135-140	4.940	241.8
145.0	5.900	10.90	12.90	9.200	4.900	11.10	11.70	10.40	140-145	3.635	245.4
150.0	3.600	6.600	8.700	5.000	2.100	3.800	2.900	4.900	145-150	2.180	247.6
155.0	0	0	0.200	0	0	0	0	0	150-155	0.478	248.1
160.0	0	0	0	0	0	0	0	0	155-160	0.001	248.1
165.0	0	0	0	0	0	0	0	0	160-165	0	248.1
170.0	0	0	0	0	0	0	0	0	165-170	0	248.1
175.0	0	0	0	0	0	0	0	0	170-175	0	248.1
180.0	0	0	0	0	0	0	0	0	175-180	0	248.1
<b>DEG</b>	<b>LUMINOUS INTENSITY: cd</b>									<b>UNIT: lm</b>	

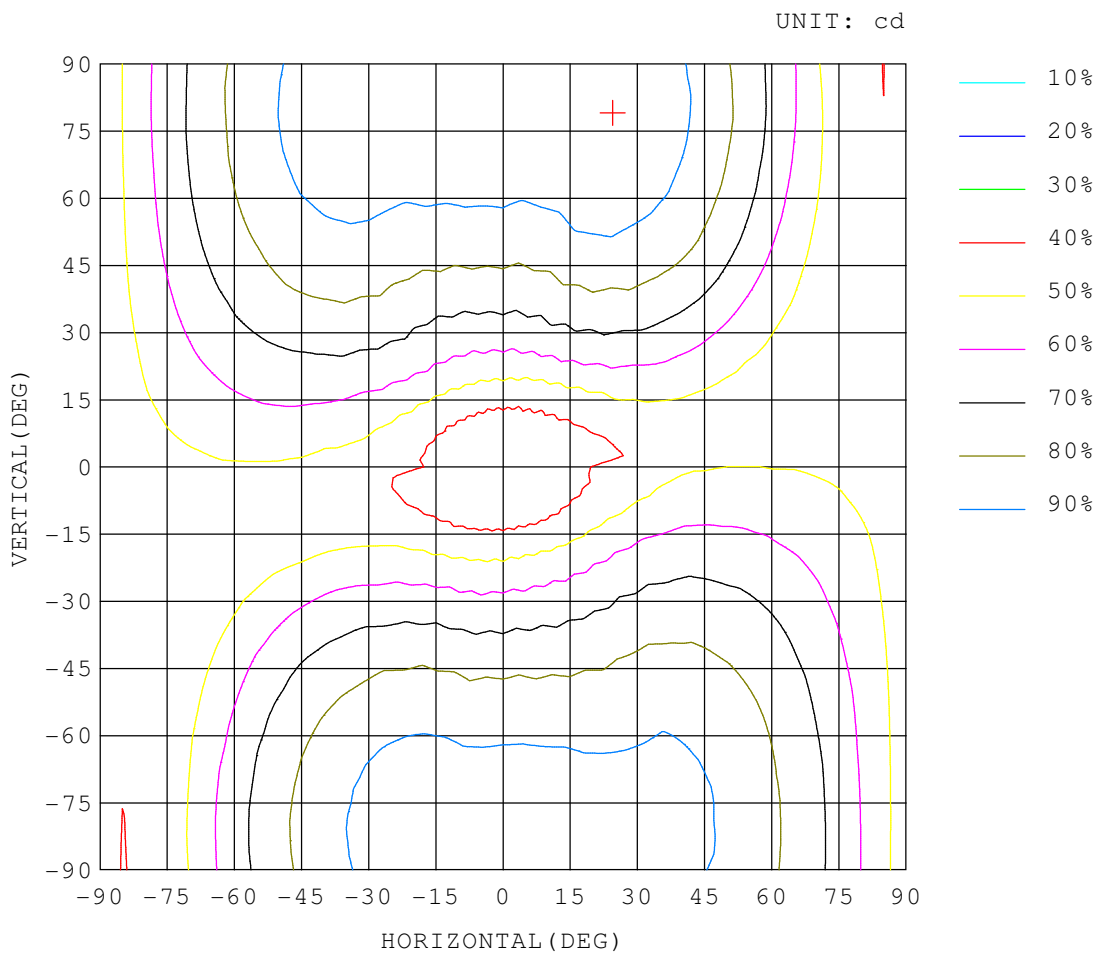
**Test System: LSG-1800**  
**Temperature: 25.3 DEG**  
**Operators: G**  
**Test Date: 05-17-2018**

**Test Set: 5.0 deg/s C-Gamma (TYPE C)**  
**Humidity: 65.0%**  
**Test Distance: 10.000 m**  
**Remarks: G9 LED**

ISOCANDELA DIAGRAM

Report number: GO2018-124

MANUFACTURER: IDEAL LUX SRL	Address: Via Taglio Destro 32 - Mirano (VE)	
NAME: 189000	TYPE: light bulb G9	WEIGHT:
SPECIFICATION:	DIMENSION: D.17 H.45	SERIAL No.:



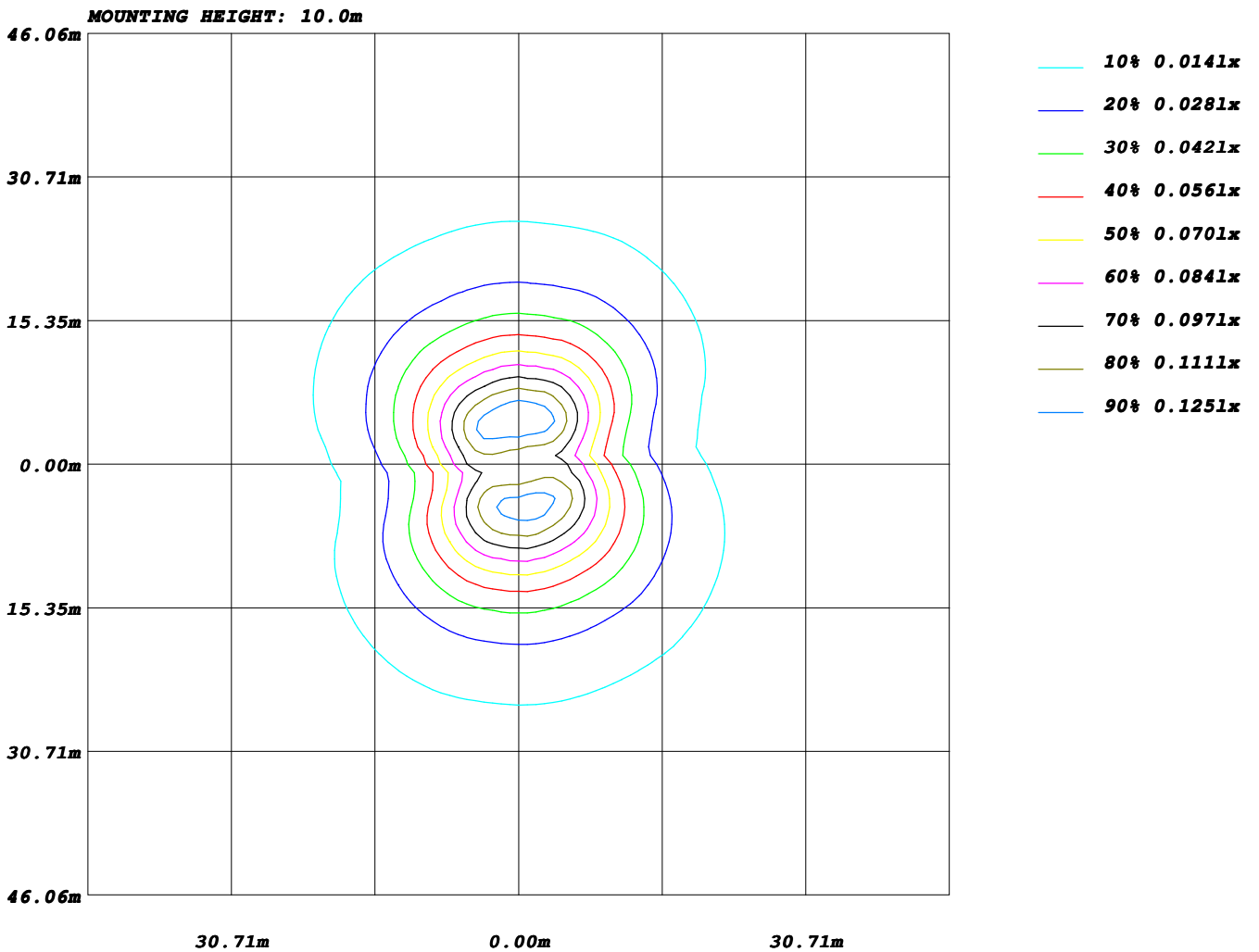
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 Remarks: G9 LED

ISOLUX DIAGRAM

Report number: GO2018-124

MANUFACTURER: IDEAL LUX SRL	Address: Via Taglio Destro 32 - Mirano (VE)	
NAME: 189000	TYPE: light bulb G9	WEIGHT:
SPECIFICATION:	DIMENSION: D.17 H.45	SERIAL No.:



Test System: LSG-1800  
 Temperature: 25.3DEG  
 Operators: G  
 Test Date: 05-17-2018

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 10.000 m  
 Remarks: G9 LED

**AREA LUMINOUS FLUX**

Report number: GO2018-124

MANUFACTURER: IDEAL LUX SRL	Address: Via Taglio Destro 32 - Mirano (VE)	
NAME: 189000	TYPE: light bulb G9	WEIGHT:
SPECIFICATION:	DIMENSION: D.17 H.45	SERIAL No.:

		AREA FLUX DIAGRAM																	UNIT: lm		$\Phi_t$	$\Phi_a$
VERTICAL (DEG)	90	0.04	0.16	0.31	0.48	0.63	0.75	0.83	0.90	0.94	0.93	0.91	0.86	0.75	0.59	0.42	0.25	0.12	0.03	9.89	9.89	
	80	0.04	0.16	0.31	0.48	0.63	0.75	0.83	0.89	0.93	0.92	0.90	0.86	0.74	0.59	0.41	0.25	0.12	0.03	9.85	9.85	
	70	0.04	0.16	0.31	0.47	0.62	0.74	0.81	0.86	0.89	0.89	0.88	0.84	0.73	0.57	0.40	0.24	0.12	0.03	9.59	9.59	
	60	0.04	0.16	0.30	0.45	0.60	0.71	0.77	0.82	0.84	0.84	0.84	0.80	0.69	0.55	0.38	0.23	0.11	0.03	9.16	9.16	
	50	0.04	0.15	0.29	0.43	0.57	0.67	0.73	0.75	0.77	0.77	0.77	0.74	0.64	0.51	0.35	0.21	0.11	0.04	8.54	8.54	
	40	0.04	0.15	0.27	0.40	0.53	0.62	0.66	0.67	0.68	0.68	0.69	0.66	0.57	0.45	0.32	0.20	0.11	0.04	7.72	7.72	
	30	0.04	0.14	0.25	0.37	0.47	0.55	0.59	0.58	0.57	0.56	0.57	0.55	0.49	0.39	0.28	0.19	0.11	0.04	6.72	6.72	
		0.04	0.13	0.23	0.33	0.42	0.47	0.49	0.46	0.42	0.41	0.43	0.43	0.40	0.33	0.26	0.18	0.11	0.04	5.56	5.56	
		0.04	0.12	0.21	0.29	0.35	0.40	0.40	0.37	0.34	0.32	0.34	0.36	0.35	0.31	0.26	0.19	0.12	0.04	4.79	4.79	
		0.04	0.12	0.19	0.25	0.31	0.35	0.36	0.34	0.32	0.33	0.36	0.39	0.40	0.36	0.29	0.21	0.12	0.04	4.77	4.77	
		0.04	0.11	0.18	0.25	0.32	0.37	0.41	0.41	0.40	0.41	0.44	0.48	0.47	0.42	0.33	0.23	0.13	0.04	5.44	5.44	
	-30	0.04	0.11	0.19	0.27	0.37	0.45	0.51	0.53	0.54	0.55	0.56	0.57	0.54	0.47	0.37	0.26	0.14	0.04	6.50	6.50	
	-40	0.04	0.11	0.19	0.30	0.43	0.53	0.61	0.65	0.65	0.66	0.65	0.64	0.60	0.52	0.41	0.28	0.15	0.04	7.45	7.45	
	-50	0.03	0.11	0.21	0.34	0.48	0.60	0.69	0.74	0.75	0.75	0.73	0.70	0.65	0.56	0.43	0.29	0.16	0.04	8.26	8.26	
	-60	0.03	0.11	0.22	0.37	0.52	0.65	0.75	0.81	0.82	0.82	0.80	0.75	0.69	0.59	0.45	0.30	0.16	0.04	8.89	8.89	
	-70	0.03	0.11	0.23	0.39	0.54	0.69	0.79	0.85	0.87	0.87	0.84	0.79	0.72	0.61	0.46	0.31	0.16	0.05	9.32	9.32	
	-80	0.03	0.11	0.24	0.40	0.56	0.70	0.82	0.88	0.90	0.90	0.87	0.81	0.73	0.62	0.47	0.31	0.17	0.05	9.56	9.56	
	-90	0.03	0.11	0.24	0.40	0.56	0.71	0.82	0.88	0.91	0.91	0.87	0.81	0.73	0.62	0.47	0.31	0.17	0.05	9.60	9.60	
		-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90				
$\Phi_t$	0.70	2.33	4.37	6.66	8.88	10.7	11.8	12.3	12.5	12.5	12.4	12.0	10.8	9.05	6.77	4.43	2.37	0.71	248			
$\Phi_a$	0.70	2.33	4.37	6.66	8.88	10.7	11.8	12.3	12.5	12.5	12.4	12.0	10.8	9.05	6.77	4.43	2.37	0.71		248		

**Test System: LSG-1800**  
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**Operators: G**  
**Test Date: 05-17-2018**

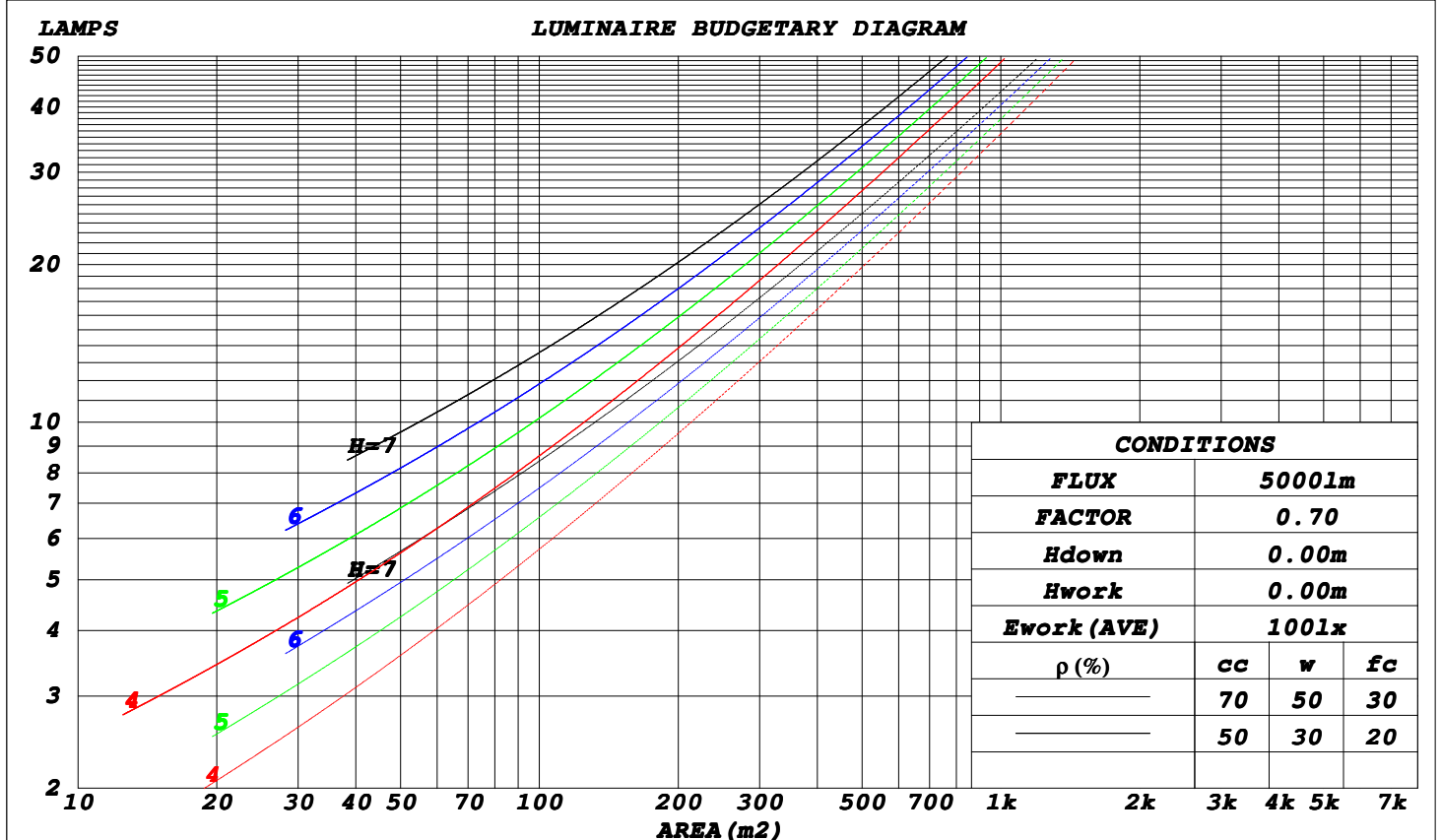
**Test Set: 5.0deg/s C-Gamma (TYPE C)**  
**Humidity: 65.0%**  
**Test Distance: 10.000 m**  
**Remarks: G9 LED**

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Report number: GO2018-124

MANUFACTURER: IDEAL LUX SRL				Address: Via Taglio Destro 32 - Mirano (VE)			
NAME: 189000				TYPE: light bulb G9		WEIGHT:	
SPECIFICATION:				DIMENSION: D.17 H.45		SERIAL No.:	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR: Room Cavity Ratio						Coefficients of Utilization (CU)									
0.0	1.09	1.09	1.09	1.01	1.01	1.01	.87	.87	.87	.74	.74	.74	.63	.63	.63	.57
1.0	.87	.81	.75	.80	.75	.70	.68	.64	.60	.57	.54	.51	.46	.44	.42	.36
2.0	.73	.64	.57	.67	.60	.53	.57	.51	.45	.47	.42	.38	.38	.34	.31	.26
3.0	.62	.53	.45	.57	.49	.42	.48	.41	.36	.40	.34	.30	.32	.27	.24	.20
4.0	.54	.44	.37	.50	.41	.34	.42	.34	.29	.34	.28	.24	.27	.23	.19	.15
5.0	.47	.37	.30	.44	.35	.28	.37	.29	.24	.30	.24	.20	.24	.19	.16	.12
6.0	.42	.32	.25	.39	.30	.24	.32	.25	.20	.27	.21	.17	.21	.17	.13	.10
7.0	.37	.28	.22	.35	.26	.20	.29	.22	.17	.24	.18	.14	.19	.15	.11	.08
8.0	.34	.25	.19	.31	.23	.17	.26	.20	.15	.22	.16	.12	.17	.13	.10	.07
9.0	.31	.22	.16	.28	.21	.15	.24	.17	.13	.20	.15	.11	.16	.12	.08	.06
10.0	.28	.20	.14	.26	.18	.13	.22	.16	.11	.18	.13	.09	.15	.10	.07	.05



**Test System: LSG-1800**  
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**WEC AND CCEC**

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$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR: Room Cavity Ratio</b>						<b>Wall Exitance Coefficients (WEC)</b>									
0.0																
1.0	.438	.249	.079	.417	.238	.076	.379	.218	.069	.344	.198	.064	.312	.181	.058	
2.0	.362	.198	.061	.343	.189	.058	.308	.171	.053	.276	.155	.048	.246	.139	.044	
3.0	.313	.167	.050	.297	.159	.048	.265	.143	.044	.235	.129	.040	.208	.115	.036	
4.0	.278	.144	.042	.262	.137	.041	.233	.124	.037	.206	.111	.033	.181	.098	.030	
5.0	.250	.127	.037	.235	.121	.035	.209	.109	.032	.184	.097	.029	.160	.086	.026	
6.0	.227	.114	.033	.214	.108	.031	.189	.097	.028	.166	.086	.025	.144	.076	.023	
7.0	.208	.103	.029	.196	.097	.028	.173	.087	.025	.151	.078	.023	.131	.068	.020	
8.0	.192	.094	.026	.180	.089	.025	.159	.080	.023	.139	.071	.020	.121	.062	.018	
9.0	.178	.086	.024	.167	.082	.023	.148	.073	.021	.129	.065	.019	.112	.057	.016	
10.0	.166	.079	.022	.156	.075	.021	.138	.067	.019	.120	.060	.017	.104	.052	.015	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR: Room Cavity Ratio</b>						<b>Ceiling Cavity Exitance Coefficients (CCEC)</b>									
0.0	.517	.517	.517	.442	.442	.442	.302	.302	.302	.173	.173	.173	.055	.055	.055	
1.0	.519	.485	.454	.444	.416	.391	.304	.286	.270	.175	.166	.157	.056	.053	.051	
2.0	.513	.463	.421	.440	.399	.364	.301	.276	.254	.174	.161	.149	.056	.052	.049	
3.0	.506	.448	.402	.434	.387	.348	.298	.269	.244	.172	.157	.144	.055	.051	.047	
4.0	.499	.437	.389	.428	.377	.338	.294	.263	.238	.170	.154	.141	.055	.050	.046	
5.0	.491	.428	.381	.422	.370	.331	.291	.258	.234	.168	.152	.139	.054	.050	.046	
6.0	.484	.420	.375	.416	.364	.326	.287	.255	.231	.166	.150	.137	.054	.049	.045	
7.0	.477	.414	.370	.410	.359	.322	.283	.252	.229	.165	.148	.136	.053	.049	.045	
8.0	.470	.409	.367	.405	.355	.320	.280	.249	.227	.163	.147	.135	.053	.048	.045	
9.0	.464	.404	.364	.400	.351	.318	.277	.247	.225	.161	.146	.134	.052	.048	.045	
10.0	.458	.400	.362	.395	.348	.316	.274	.245	.224	.160	.145	.134	.052	.048	.044	

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**Humidity: 65.0%**  
**Test Distance: 10.000 m**  
**Remarks: G9 LED**

Uncorrected UGR Table

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MANUFACTURER: IDEAL LUX SRL	Address: Via Taglio Destro 32 - Mirano (VE)	
NAME: 189000	TYPE: light bulb G9	WEIGHT:
SPECIFICATION:	DIMENSION: D.17 H.45	SERIAL No.:

<b>ceiling/cavity</b>	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
<b>walls</b>	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
<b>working plane</b>	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
<b>Room dimensions</b>	<b>Viewed crosswise</b>					<b>Viewed endwise</b>				
<b>x = 2H y = 2H</b>	6.6	7.7	7.3	8.6	9.6	8.2	9.4	9.0	10.2	11.3
<b>3H</b>	9.4	10.5	10.2	11.3	12.4	11.7	12.8	12.5	13.6	14.7
<b>4H</b>	10.9	12.0	11.8	12.8	13.9	13.6	14.6	14.5	15.5	16.6
<b>6H</b>	12.6	13.6	13.5	14.4	15.6	15.7	16.7	16.6	17.6	18.7
<b>8H</b>	13.5	14.4	14.4	15.3	16.5	16.9	17.9	17.8	18.7	19.9
<b>12H</b>	14.5	15.4	15.4	16.3	17.5	18.3	19.2	19.1	20.1	21.2
<b>4H 2H</b>	8.2	9.2	9.0	10.1	11.2	9.2	10.3	10.1	11.1	12.2
<b>3H</b>	11.3	12.2	12.1	13.1	14.2	12.8	13.7	13.7	14.6	15.7
<b>4H</b>	13.0	13.8	13.9	14.7	15.9	14.9	15.7	15.7	16.6	17.8
<b>6H</b>	14.8	15.5	15.7	16.4	17.6	17.1	17.9	18.0	18.8	20.0
<b>8H</b>	15.7	16.4	16.6	17.4	18.6	18.4	19.1	19.3	20.0	21.2
<b>12H</b>	16.8	17.4	17.7	18.4	19.6	19.8	20.5	20.8	21.4	22.6
<b>8H 4H</b>	14.2	14.9	15.1	15.8	17.0	15.5	16.2	16.5	17.2	18.4
<b>6H</b>	16.4	17.0	17.3	17.9	19.1	18.1	18.7	19.0	19.6	20.9
<b>8H</b>	17.6	18.1	18.5	19.1	20.3	19.5	20.1	20.5	21.0	22.3
<b>12H</b>	18.8	19.3	19.8	20.3	21.5	21.2	21.7	22.2	22.6	23.9
<b>12H 4H</b>	14.5	15.2	15.5	16.1	17.3	15.7	16.3	16.6	17.3	18.5
<b>6H</b>	16.9	17.4	17.9	18.4	19.6	18.4	18.9	19.3	19.9	21.1
<b>8H</b>	18.3	18.7	19.2	19.7	21.0	19.9	20.4	20.9	21.4	22.7

Variations with the observer position at spacings:

<b>S = 1.0H</b>	+ 0.1 / - 0.1	+ 0.1 / - 0.1
<b>1.5H</b>	+ 0.2 / - 0.3	+ 0.2 / - 0.3
<b>2.0H</b>	+ 0.4 / - 0.5	+ 0.3 / - 0.4

CIE Pub.117 Corrected 248.1 lm Total Lamp Luminous Flux. (8log(F/F0) = -4.8)

Test System: LSG-1800  
 Temperature: 25.3 DEG  
 Operators: G  
 Test Date: 05-17-2018

Test Set: 5.0 deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 10.000 m  
 Remarks: G9 LED



**UTILIZATION FACTORS TABLE**

Report number: GO2018-124

MANUFACTURER: IDEAL LUX SRL	Address: Via Taglio Destro 32 - Mirano (VE)	
NAME: 189000	TYPE: light bulb G9	WEIGHT:
SPECIFICATION:	DIMENSION: D.17 H.45	SERIAL No.:

REFLECTANCE										
<b>Ceiling</b>	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
<b>Walls</b>	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
<b>Working plane</b>	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
<b>ROOM INDEX</b>	<b>UTILIZATION FACTORS (PERCENT) <math>k(RI) \times RCR = 5</math></b>									
<b>k = 0.60</b>	36	23	15	34	22	15	31	20	14	7
<b>0.80</b>	44	30	21	42	29	21	38	26	19	10
<b>1.00</b>	52	37	27	49	35	26	43	34	24	13
<b>1.25</b>	58	44	34	55	42	32	48	37	29	17
<b>1.50</b>	64	49	39	60	47	37	52	42	34	19
<b>2.00</b>	72	58	48	67	55	46	58	48	41	24
<b>2.50</b>	77	64	55	72	60	52	62	53	46	27
<b>3.00</b>	81	69	60	75	65	57	65	57	50	30
<b>4.00</b>	87	76	68	80	72	64	69	62	56	34
<b>5.00</b>	90	81	74	84	76	69	72	66	60	37
<b>ROOM INDEX</b>	<b>UF (total)</b>									<b>Direct</b>
<b>According to DIN EN 13032-2 2004</b>			<b>Suspended</b>				<b>SHRNOM = 1.25</b>			

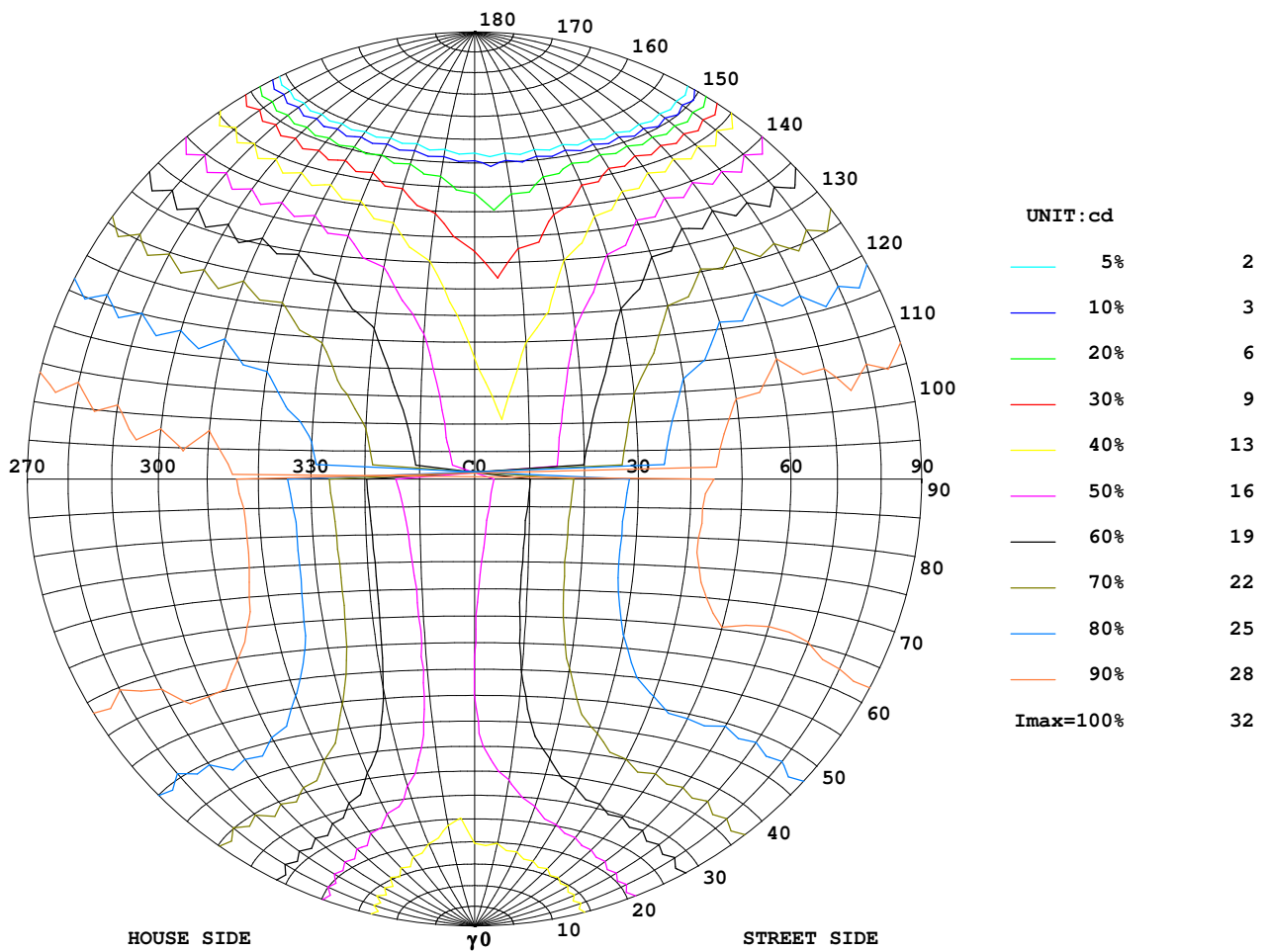
Test System: LSG-1800  
 Temperature: 25.3 DEG  
 Operators: G  
 Test Date: 05-17-2018

Test Set: 5.0 deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 10.000 m  
 Remarks: G9 LED

### ISOCANDELA DIAGRAM

Report number: GO2018-124

MANUFACTURER: IDEAL LUX SRL	Address: Via Taglio Destro 32 - Mirano (VE)	
NAME: 189000	TYPE: light bulb G9	WEIGHT:
SPECIFICATION:	DIMENSION: D.17 H.45	SERIAL No.:



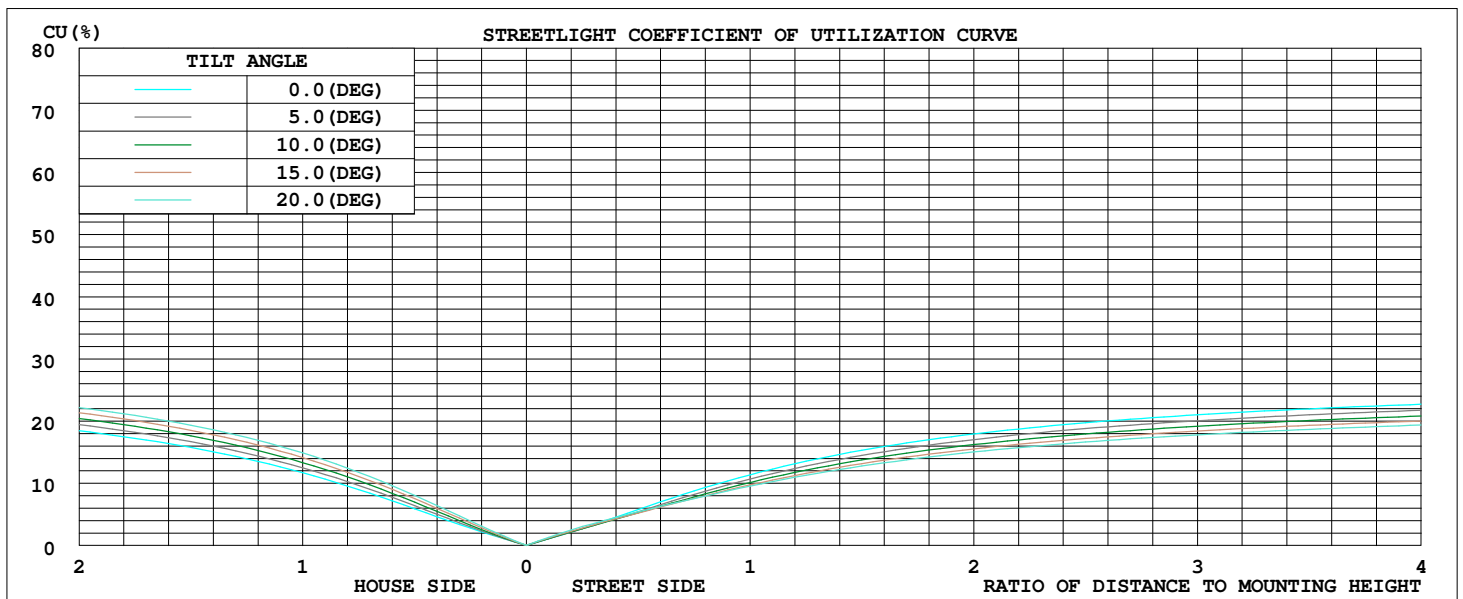
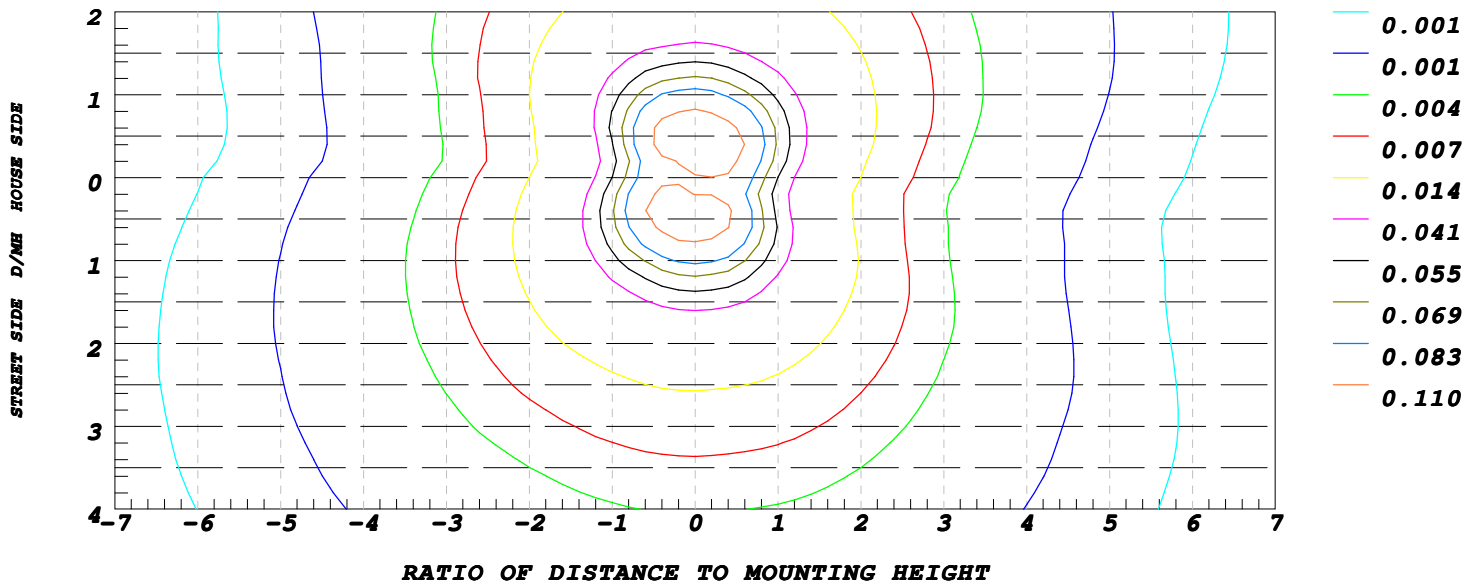
Test System: LSG-1800  
 Temperature: 25.3 DEG  
 Operators: G  
 Test Date: 05-17-2018

Test Set: 5.0 deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 10.000 m  
 Remarks: G9 LED

**ISOLUX DIAGRAM**

Report number: GO2018-124

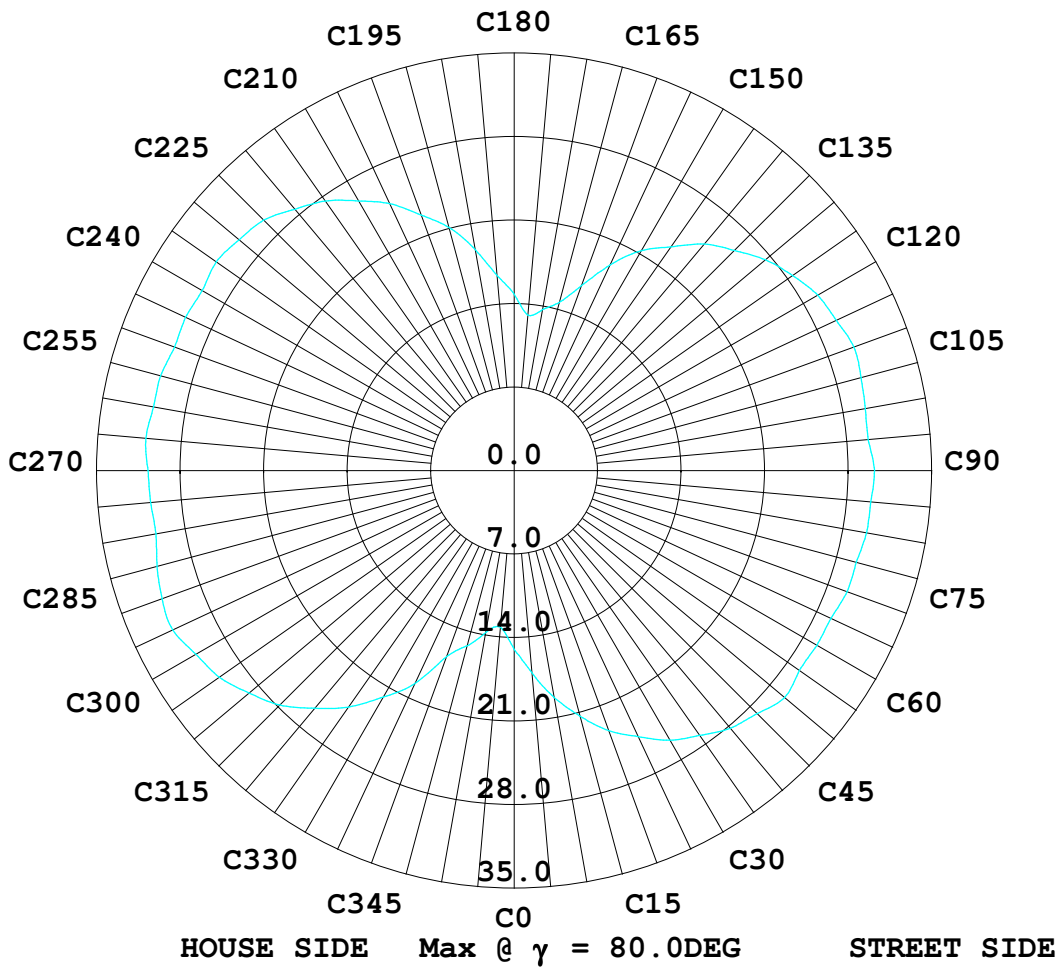
MANUFACTURER: IDEAL LUX SRL	Address: Via Taglio Destro 32 - Mirano (VE)	
NAME: 189000	TYPE: light bulb G9	WEIGHT:
SPECIFICATION:	DIMENSION: D.17 H.45	SERIAL No.:

**ILLUMINANCE AT MH=10 m, Enadir = 0.11 lx**

**Test System: LSG-1800**  
**Temperature: 25.3 DEG**  
**Operators: G**  
**Test Date: 05-17-2018**
**Test Set: 5.0deg/s C-Gamma (TYPE C)**  
**Humidity: 65.0%**  
**Test Distance: 10.000 m**  
**Remarks: G9 LED**

ISOCANDELA DIAGRAM

Report number: GO2018-124

MANUFACTURER: IDEAL LUX SRL	Address: Via Taglio Destro 32 - Mirano (VE)	
NAME: 189000	TYPE: light bulb G9	WEIGHT:
SPECIFICATION:	DIMENSION: D.17 H.45	SERIAL No.:



Test System: LSG-1800  
 Temperature: 25.3DEG  
 Operators: G  
 Test Date: 05-17-2018

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 10.000 m  
 Remarks: G9 LED

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Report number: GO2018-124

<b>MANUFACTURER: IDEAL LUX SRL</b>	<b>Address: Via Taglio Destro 32 - Mirano (VE)</b>	
<b>NAME: 189000</b>	<b>TYPE: light bulb G9</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION: D.17 H.45</b>	<b>SERIAL No.:</b>

UNIT: cd

C (DEG) \ γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
0.0	10.9	10.5	10.5	10.4	10.3	10.2	10.3	10.2	10.2	10.1	10.1	10.1	10.1	10.1	10.2
5.0	10.8	10.5	10.5	10.4	10.3	10.3	10.3	10.3	10.2	10.4	10.3	10.4	10.3	10.4	10.4
10.0	11.1	11.0	10.8	10.8	10.8	10.9	10.9	11.0	10.9	11.1	11.0	11.2	11.1	11.3	11.2
15.0	11.9	11.8	11.5	11.8	11.8	12.0	12.0	12.3	12.2	12.6	12.5	12.8	12.7	13.0	12.9
20.0	12.7	12.8	12.7	13.0	13.0	13.6	13.7	14.2	14.1	14.7	14.5	15.0	15.0	15.5	15.2
25.0	13.6	13.7	13.7	14.4	14.5	15.4	15.7	16.3	16.5	17.1	17.0	17.5	17.4	17.8	17.6
30.0	14.4	14.7	15.0	15.8	16.4	17.4	17.8	18.5	18.6	19.2	19.1	19.5	19.4	19.7	19.6
35.0	15.0	15.6	16.2	17.4	18.0	19.1	19.6	20.4	20.5	21.0	20.9	21.2	21.1	21.5	21.2
40.0	15.4	16.3	17.2	18.5	19.4	20.5	21.1	21.9	22.1	22.7	22.6	22.9	22.7	23.1	22.9
45.0	15.6	16.6	18.0	19.4	20.4	21.6	22.4	23.1	23.5	24.1	24.1	24.4	24.1	24.5	24.4
50.0	15.8	17.2	18.5	20.1	21.4	22.6	23.5	24.4	24.7	25.4	25.5	25.6	25.4	25.7	25.6
55.0	15.8	17.2	19.0	20.7	22.0	23.4	24.2	25.2	25.7	26.4	26.6	26.6	26.4	26.6	26.6
60.0	15.7	17.4	19.3	21.1	22.6	24.0	25.0	26.0	26.6	27.2	27.5	27.5	27.5	27.5	27.7
65.0	15.7	17.4	19.4	21.2	23.0	24.4	25.5	26.4	27.2	28.0	28.4	28.2	28.2	28.2	28.4
70.0	15.5	17.2	19.5	21.4	23.1	24.6	25.9	26.9	27.7	28.4	29.0	28.7	28.7	28.7	29.0
75.0	15.2	17.2	19.4	21.5	23.1	24.6	26.1	27.1	28.0	28.7	29.3	29.1	29.1	29.1	29.4
80.0	15.0	17.0	19.3	21.2	23.1	24.6	26.1	27.1	28.2	28.7	29.6	29.1	29.3	29.3	29.6
85.0	14.7	16.6	19.1	21.1	23.1	24.5	26.0	26.9	28.2	28.7	29.4	29.1	29.3	29.1	29.6
90.0	14.4	16.4	18.9	20.9	22.9	24.2	25.7	26.6	27.9	28.5	29.3	28.9	29.1	29.0	29.6
95.0	14.0	16.0	18.5	20.5	22.5	23.8	25.4	26.3	27.5	28.0	28.7	28.4	28.7	28.6	29.1
100.0	13.7	15.6	18.0	19.9	22.0	23.1	24.9	25.7	26.9	27.2	28.2	27.7	28.0	27.9	28.6
105.0	13.3	15.0	17.5	19.2	21.1	22.4	24.1	24.6	26.0	26.3	27.2	26.6	27.2	27.0	27.7
110.0	12.8	14.5	16.7	18.4	20.4	21.4	23.0	23.6	24.9	25.0	26.1	25.6	26.1	25.9	26.6
115.0	12.3	13.7	16.1	17.4	19.4	20.2	21.9	22.4	23.7	23.8	24.7	24.2	24.9	24.5	25.2
120.0	11.5	13.0	15.2	16.4	18.2	19.1	20.7	21.0	22.3	22.3	23.2	22.6	23.4	22.9	23.8
125.0	10.9	12.1	14.1	15.0	17.0	17.6	19.1	19.4	20.7	20.5	21.5	20.8	21.6	21.1	22.0
130.0	10.0	10.9	12.7	13.6	15.2	15.8	17.4	17.5	18.7	18.5	19.4	18.7	19.6	19.1	20.1
135.0	8.80	9.50	11.1	11.8	13.5	13.7	15.2	15.2	16.5	16.2	17.2	16.5	17.5	16.9	17.9
140.0	7.50	7.90	9.30	9.90	11.4	11.5	13.0	12.9	14.1	13.7	14.7	14.0	15.0	14.4	15.4
145.0	5.90	6.10	7.30	7.60	9.00	9.00	10.4	10.2	11.3	10.9	11.8	11.2	12.3	11.7	12.7
150.0	3.60	3.40	4.40	4.30	5.60	5.30	6.50	6.10	7.20	6.60	7.80	7.10	8.29	7.60	8.70
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.20	0.00	0.30	0.00	0.40
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Test System: LSG-1800**  
**Temperature: 25.3DEG**  
**Operators: G**  
**Test Date: 05-17-2018**

**Test Set: 5.0deg/s C-Gamma (TYPE C)**  
**Humidity: 65.0%**  
**Test Distance: 10.000 m**  
**Remarks: G9 LED**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Report number: GO2018-124

<b>MANUFACTURER: IDEAL LUX SRL</b>	<b>Address: Via Taglio Destro 32 - Mirano (VE)</b>	
<b>NAME: 189000</b>	<b>TYPE: light bulb G9</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION: D.17 H.45</b>	<b>SERIAL No.:</b>

UNIT: cd

C (DEG) \ γ (DEG)	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145
0.0	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.2	10.0	10.1	10.0	10.0	10.0
5.0	10.4	10.4	10.5	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.3	10.3	10.2	10.2
10.0	11.4	11.2	11.4	11.2	11.3	11.1	11.2	11.1	11.2	11.0	11.1	10.8	10.9	10.7	10.7
15.0	13.2	12.9	13.0	12.9	13.0	12.8	12.9	12.6	12.6	12.3	12.3	11.9	12.0	11.5	11.5
20.0	15.7	15.4	15.7	15.2	15.5	15.0	15.0	14.5	14.7	14.2	14.2	13.7	13.7	13.2	13.0
25.0	18.0	17.7	18.0	17.6	17.8	17.4	17.5	17.1	17.2	16.5	16.5	15.8	15.6	14.9	14.5
30.0	19.9	19.6	20.0	19.6	19.6	19.3	19.5	19.1	19.3	18.7	18.6	17.9	17.5	16.5	16.1
35.0	21.6	21.4	21.6	21.2	21.5	21.1	21.2	21.1	21.1	20.6	20.4	19.6	19.2	18.1	17.5
40.0	23.2	23.1	23.4	23.0	23.1	22.7	23.1	22.9	23.0	22.4	22.1	21.1	20.6	19.6	18.7
45.0	24.6	24.5	24.9	24.6	24.6	24.4	24.6	24.6	24.6	23.9	23.6	22.6	22.0	20.9	19.9
50.0	25.9	25.7	26.1	25.9	26.0	25.7	26.1	26.0	26.0	25.4	25.0	24.0	23.1	22.0	20.9
55.0	27.0	26.9	27.2	27.1	27.1	27.0	27.2	27.2	27.2	26.6	26.0	25.0	24.2	23.0	21.6
60.0	27.9	27.9	28.2	28.0	28.0	28.0	28.2	28.2	28.0	27.5	26.9	26.0	24.9	23.6	22.3
65.0	28.7	28.7	28.9	28.7	28.7	28.7	29.0	29.0	28.7	28.2	27.5	26.6	25.5	24.2	22.6
70.0	29.1	29.4	29.4	29.4	29.3	29.3	29.6	29.6	29.3	28.9	28.0	27.1	25.9	24.5	22.9
75.0	29.4	29.8	29.8	29.9	29.6	29.6	30.0	30.1	29.6	29.1	28.4	27.4	26.1	24.6	23.0
80.0	29.6	30.0	30.0	30.1	29.8	29.9	30.1	30.3	29.8	29.4	28.5	27.5	26.1	24.7	22.9
85.0	29.6	30.1	30.0	30.1	29.8	29.9	30.1	30.4	29.8	29.4	28.4	27.5	26.0	24.6	22.7
90.0	29.4	30.0	29.8	30.0	29.6	29.6	29.8	30.1	29.6	29.3	28.0	27.2	25.7	24.5	22.5
95.0	29.0	29.6	29.4	29.6	29.1	29.3	29.3	29.8	29.1	28.9	27.7	26.9	25.2	24.2	22.1
100.0	28.4	29.0	28.7	29.1	28.5	28.7	28.5	29.1	28.2	28.2	27.0	26.3	24.6	23.6	21.4
105.0	27.5	28.2	27.7	28.2	27.5	27.9	27.5	28.0	27.2	27.2	26.0	25.4	23.7	22.7	20.7
110.0	26.3	27.0	26.6	27.1	26.4	26.6	26.3	26.9	26.0	26.1	24.7	24.2	22.5	21.6	19.6
115.0	24.9	25.7	25.2	25.7	25.0	25.4	24.9	25.5	24.6	24.7	23.4	23.1	21.4	20.6	18.7
120.0	23.2	24.1	23.6	24.2	23.2	23.9	23.1	24.0	23.1	23.2	21.9	21.6	20.0	19.3	17.4
125.0	21.5	22.4	21.7	22.5	21.6	22.1	21.4	22.2	21.2	21.5	20.1	20.0	18.2	17.8	15.8
130.0	19.5	20.4	19.6	20.4	19.6	20.2	19.3	20.2	19.2	19.5	18.0	18.0	16.4	16.0	14.1
135.0	17.2	18.1	17.5	18.1	17.2	17.9	17.0	17.8	16.7	17.2	15.8	15.9	14.2	13.9	12.1
140.0	14.8	15.7	14.9	15.7	14.8	15.4	14.4	15.2	14.2	14.7	13.2	13.4	11.9	11.5	10.0
145.0	12.0	12.9	12.1	12.9	11.9	12.6	11.5	12.4	11.2	11.7	10.4	10.5	9.20	9.09	7.60
150.0	7.90	8.90	7.90	8.70	7.60	8.29	7.10	7.90	6.60	7.20	5.80	6.20	5.00	5.20	3.90
155.0	0.00	0.30	0.00	0.20	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Test System: LSG-1800**  
**Temperature: 25.3 DEG**  
**Operators: G**  
**Test Date: 05-17-2018**

**Test Set: 5.0 deg/s C-Gamma (TYPE C)**  
**Humidity: 65.0%**  
**Test Distance: 10.000 m**  
**Remarks: G9 LED**

**LUMINOUS DISTRIBUTION INTENSITY DATA**
**Report number: GO2018-124**

<b>MANUFACTURER: IDEAL LUX SRL</b>	<b>Address: Via Taglio Destro 32 - Mirano (VE)</b>	
<b>NAME: 189000</b>	<b>TYPE: light bulb G9</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION: D.17 H.45</b>	<b>SERIAL No.:</b>

UNIT: cd

C (DEG) \ γ (DEG)	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220
0.0	10.0	9.90	9.90	9.80	9.80	9.80	10.9	10.5	10.5	10.4	10.3	10.2	10.3	10.2	10.2
5.0	10.1	10.1	10.1	10.0	10.0	10.0	11.1	10.9	10.8	10.5	10.7	10.5	10.7	10.5	10.7
10.0	10.5	10.5	10.3	10.3	10.3	10.4	11.5	11.3	11.3	11.2	11.3	11.3	11.5	11.4	11.5
15.0	11.3	11.3	11.0	11.0	11.0	11.0	12.2	11.9	12.1	12.0	12.3	12.3	12.6	12.5	12.9
20.0	12.5	12.4	12.0	12.0	11.8	11.9	13.0	12.9	13.2	13.3	13.7	13.7	14.3	14.2	14.8
25.0	13.9	13.5	13.0	12.8	12.6	12.7	14.0	14.0	14.5	14.5	15.2	15.5	16.4	16.5	17.4
30.0	15.2	14.5	13.7	13.5	13.3	13.2	14.5	14.8	15.5	15.9	16.7	17.2	18.4	18.7	19.5
35.0	16.3	15.4	14.5	14.0	13.7	13.6	15.0	15.4	16.3	17.1	18.1	18.9	20.0	20.4	21.2
40.0	17.5	16.2	15.0	14.4	14.0	13.7	15.4	15.8	17.2	18.1	19.4	20.2	21.5	22.0	22.9
45.0	18.6	17.0	15.5	14.5	14.2	13.9	15.5	16.2	18.0	19.1	20.4	21.4	22.7	23.4	24.2
50.0	19.4	17.7	15.9	14.8	14.3	13.9	15.6	16.5	18.5	19.9	21.2	22.4	23.8	24.5	25.5
55.0	20.2	18.2	16.3	15.0	14.4	13.9	15.6	16.7	18.9	20.4	21.9	23.2	24.6	25.6	26.4
60.0	20.7	18.7	16.5	15.0	14.4	13.9	15.6	16.9	19.1	20.9	22.4	23.9	25.2	26.3	27.2
65.0	21.0	19.0	16.5	15.0	14.3	13.7	15.5	16.9	19.2	21.1	22.7	24.2	25.7	26.8	27.7
70.0	21.2	19.0	16.5	15.0	14.2	13.6	15.2	16.7	19.2	21.1	22.9	24.5	26.0	27.2	28.2
75.0	21.4	19.0	16.5	14.8	14.0	13.4	15.0	16.5	19.0	21.1	22.9	24.6	26.1	27.5	28.5
80.0	21.2	19.0	16.5	14.5	13.7	13.0	14.8	16.4	18.7	21.1	22.7	24.6	26.1	27.5	28.6
85.0	21.1	18.7	16.2	14.3	13.5	12.8	14.4	16.1	18.5	20.9	22.6	24.5	26.0	27.5	28.5
90.0	21.0	18.4	15.9	14.0	13.2	12.5	14.1	15.8	18.1	20.6	22.3	24.2	25.7	27.2	28.2
95.0	20.6	17.9	15.6	13.7	13.0	12.3	13.7	15.2	17.7	20.2	21.7	23.9	25.2	26.9	27.7
100.0	20.0	17.5	15.2	13.3	12.7	12.0	13.4	14.8	17.2	19.6	21.1	23.4	24.6	26.3	27.0
105.0	19.4	16.7	14.7	12.9	12.3	11.5	13.0	14.3	16.5	19.0	20.4	22.5	23.6	25.5	26.0
110.0	18.5	16.1	14.1	12.3	11.7	11.0	12.4	13.6	15.8	18.0	19.4	21.5	22.4	24.2	24.6
115.0	17.6	15.2	13.3	11.5	11.2	10.5	11.7	12.9	14.9	17.1	18.2	20.2	21.1	23.0	23.4
120.0	16.4	14.0	12.5	10.8	10.5	9.80	11.0	12.0	13.9	16.0	17.0	19.0	19.6	21.5	21.7
125.0	15.0	12.7	11.4	9.90	9.70	9.00	10.1	11.0	12.6	14.5	15.6	17.4	18.0	19.7	20.1
130.0	13.4	11.2	10.2	8.80	8.70	8.00	9.00	9.80	11.1	13.0	13.7	15.6	16.1	17.8	18.0
135.0	11.5	9.50	8.70	7.60	7.60	7.00	7.80	8.50	9.50	11.3	11.8	13.5	13.7	15.6	15.6
140.0	9.50	7.70	7.20	6.20	6.30	5.70	6.40	7.00	7.60	9.30	9.60	11.2	11.4	13.0	12.9
145.0	7.30	5.80	5.60	4.70	4.90	4.30	4.90	5.40	5.50	7.10	7.20	8.60	8.60	9.90	9.80
150.0	4.10	2.80	3.00	2.10	2.40	1.70	2.10	2.60	2.10	3.10	2.40	3.40	2.70	3.60	2.70
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Test System: LSG-1800**  
**Temperature: 25.3DEG**  
**Operators: G**  
**Test Date: 05-17-2018**
**Test Set: 5.0deg/s C-Gamma (TYPE C)**  
**Humidity: 65.0%**  
**Test Distance: 10.000 m**  
**Remarks: G9 LED**

**LUMINOUS DISTRIBUTION INTENSITY DATA**
**Report number: GO2018-124**

<b>MANUFACTURER: IDEAL LUX SRL</b>	<b>Address: Via Taglio Destro 32 - Mirano (VE)</b>	
<b>NAME: 189000</b>	<b>TYPE: light bulb G9</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION: D.17 H.45</b>	<b>SERIAL No.:</b>

UNIT: cd

C (DEG) \ γ (DEG)	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295
0.0	10.1	10.1	10.1	10.1	10.1	10.2	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
5.0	10.5	10.7	10.5	10.7	10.5	10.7	10.5	10.7	10.5	10.7	10.5	10.7	10.5	10.5	10.5
10.0	11.5	11.7	11.5	11.7	11.5	11.8	11.5	11.8	11.5	11.8	11.5	11.7	11.4	11.5	11.3
15.0	12.8	13.2	13.0	13.4	13.2	13.5	13.2	13.5	13.3	13.6	13.2	13.4	13.0	13.3	12.9
20.0	14.8	15.4	15.2	15.9	15.7	16.1	15.8	16.2	15.9	16.3	15.8	16.1	15.4	15.6	15.0
25.0	17.4	18.0	17.9	18.2	18.0	18.5	18.1	18.7	18.4	18.7	18.2	18.7	18.1	18.5	17.8
30.0	19.6	20.2	19.9	20.2	20.1	20.5	20.2	20.7	20.5	20.8	20.4	20.8	20.5	20.8	20.2
35.0	21.5	22.0	21.6	21.9	21.6	22.1	21.9	22.3	22.2	22.5	22.1	22.5	22.2	22.7	22.3
40.0	23.1	23.6	23.2	23.5	23.2	23.7	23.5	24.0	23.8	24.1	23.7	24.1	23.8	24.5	24.1
45.0	24.6	25.0	24.7	25.0	24.7	25.2	25.0	25.4	25.2	25.5	25.0	25.5	25.4	26.1	25.7
50.0	25.7	26.4	26.1	26.3	26.1	26.4	26.4	26.8	26.6	26.8	26.4	26.8	26.6	27.4	27.2
55.0	27.0	27.5	27.4	27.4	27.2	27.5	27.5	27.9	27.7	27.9	27.5	27.9	27.9	28.6	28.5
60.0	27.7	28.2	28.4	28.2	28.2	28.5	28.5	28.7	28.7	28.7	28.5	28.7	28.7	29.4	29.4
65.0	28.5	29.0	29.1	29.1	29.0	29.1	29.3	29.4	29.4	29.4	29.1	29.3	29.6	30.1	30.3
70.0	29.1	29.6	29.8	29.6	29.6	29.6	29.9	30.1	30.1	30.1	29.9	29.9	30.3	30.7	30.8
75.0	29.4	29.9	30.3	30.0	30.1	30.1	30.4	30.5	30.7	30.5	30.3	30.1	30.7	31.2	31.2
80.0	29.6	30.1	30.5	30.1	30.4	30.3	30.7	30.7	31.0	30.7	30.5	30.5	31.0	31.4	31.6
85.0	29.6	30.0	30.5	30.1	30.3	30.1	30.7	30.7	31.0	30.7	30.7	30.3	31.0	31.2	31.6
90.0	29.4	29.6	30.3	29.8	30.1	30.0	30.5	30.5	30.8	30.5	30.5	30.1	30.7	31.0	31.4
95.0	28.9	29.1	29.8	29.3	29.8	29.6	30.1	30.1	30.5	30.0	30.1	29.6	30.3	30.5	31.0
100.0	28.2	28.4	29.1	28.6	29.1	28.9	29.6	29.4	29.9	29.3	29.4	29.0	29.6	29.8	30.3
105.0	27.4	27.4	28.2	27.5	28.2	28.0	28.7	28.5	29.1	28.4	28.7	28.0	28.7	28.7	29.4
110.0	26.1	26.1	27.0	26.4	27.1	26.6	27.5	27.2	27.9	27.2	27.5	26.8	27.5	27.5	28.2
115.0	24.7	24.6	25.6	24.9	25.7	25.2	26.3	25.7	26.4	25.7	26.1	25.4	26.1	26.0	26.8
120.0	23.1	23.0	23.9	23.1	24.1	23.6	24.6	24.0	24.7	24.0	24.5	23.7	24.6	24.2	25.2
125.0	21.5	21.1	22.1	21.2	22.2	21.6	22.7	22.1	23.0	22.1	22.7	21.7	22.7	22.2	23.2
130.0	19.4	19.0	20.0	19.2	20.1	19.5	20.6	20.0	20.9	20.0	20.7	19.6	20.7	20.1	21.1
135.0	17.0	16.5	17.5	16.7	17.8	17.1	18.1	17.5	18.5	17.5	18.4	17.2	18.2	17.6	18.6
140.0	14.3	13.7	14.8	14.0	15.0	14.4	15.5	14.7	15.8	14.8	15.7	14.5	15.5	14.7	15.6
145.0	11.1	10.5	11.5	10.8	11.9	11.3	12.3	11.5	12.6	11.7	12.5	11.4	12.3	11.4	12.2
150.0	3.80	2.70	3.70	2.70	3.80	2.80	3.90	2.80	4.00	2.90	4.10	3.10	4.30	3.30	4.60
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Test System: LSG-1800**  
**Temperature: 25.3DEG**  
**Operators: G**  
**Test Date: 05-17-2018**
**Test Set: 5.0deg/s C-Gamma (TYPE C)**  
**Humidity: 65.0%**  
**Test Distance: 10.000 m**  
**Remarks: G9 LED**



**LUMINOUS DISTRIBUTION INTENSITY DATA**

Report number: GO2018-124

<b>MANUFACTURER: IDEAL LUX SRL</b>	<b>Address: Via Taglio Destro 32 - Mirano (VE)</b>	
<b>NAME: 189000</b>	<b>TYPE: light bulb G9</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION: D.17 H.45</b>	<b>SERIAL No.:</b>

UNIT: cd

C (DEG) \ γ (DEG)	300	305	310	315	320	325	330	335	340	345	350	355
0.0	10.2	10.0	10.1	10.0	10.0	10.0	10.0	9.90	9.90	9.80	9.80	9.80
5.0	10.5	10.4	10.4	10.3	10.3	10.1	10.1	10.0	9.90	9.80	9.80	9.80
10.0	11.5	11.1	11.2	10.9	11.0	10.7	10.7	10.5	10.4	10.2	10.2	10.1
15.0	13.0	12.5	12.7	12.2	12.3	11.8	11.8	11.4	11.4	11.0	11.0	10.8
20.0	15.2	14.5	14.5	14.0	13.9	13.3	13.0	12.6	12.4	12.0	11.8	11.5
25.0	18.0	17.2	17.1	16.0	15.8	15.0	14.5	13.9	13.5	12.9	12.6	12.3
30.0	20.5	19.7	19.6	18.5	17.9	16.6	16.3	15.2	14.5	13.7	13.4	13.0
35.0	22.5	21.7	21.6	20.6	20.0	18.6	17.7	16.4	15.5	14.5	14.0	13.5
40.0	24.2	23.5	23.2	22.2	21.5	20.1	18.9	17.2	16.1	15.0	14.3	13.7
45.0	25.9	25.0	24.6	23.6	22.7	21.1	19.9	18.0	16.5	15.2	14.5	13.9
50.0	27.2	26.4	26.0	24.7	23.8	22.2	20.8	18.7	16.7	15.5	14.5	14.0
55.0	28.4	27.5	27.0	25.7	24.6	23.0	21.2	19.2	17.0	15.6	14.5	13.9
60.0	29.1	28.5	27.7	26.6	25.2	23.6	21.6	19.5	17.1	15.6	14.5	13.9
65.0	29.9	29.1	28.2	27.2	25.7	23.9	21.9	19.6	17.1	15.5	14.4	13.7
70.0	30.4	29.6	28.7	27.5	25.9	24.1	22.0	19.7	17.0	15.5	14.3	13.6
75.0	30.7	30.0	28.9	27.7	26.0	24.2	22.0	19.7	16.9	15.2	14.1	13.4
80.0	30.7	30.1	29.0	27.7	26.0	24.2	21.9	19.6	16.5	15.2	13.7	13.2
85.0	30.7	30.1	28.9	27.7	25.7	24.1	21.6	19.5	16.4	14.9	13.6	12.9
90.0	30.5	30.0	28.6	27.5	25.5	23.8	21.4	19.2	16.0	14.5	13.3	12.6
95.0	30.0	29.6	28.2	27.2	25.0	23.4	20.9	18.7	15.6	14.4	13.0	12.3
100.0	29.3	29.0	27.5	26.6	24.5	22.9	20.2	18.2	15.2	14.0	12.7	12.0
105.0	28.2	28.0	26.4	25.7	23.5	22.1	19.6	17.7	14.7	13.6	12.3	11.7
110.0	27.0	26.9	25.2	24.6	22.5	21.2	18.7	17.0	14.2	13.0	11.8	11.3
115.0	25.5	25.6	24.0	23.5	21.4	20.2	17.8	16.2	13.5	12.6	11.2	10.8
120.0	23.9	24.1	22.5	22.1	20.0	19.0	16.6	15.2	12.7	11.9	10.5	10.2
125.0	22.0	22.3	20.7	20.4	18.4	17.6	15.4	13.9	11.7	11.0	9.80	9.60
130.0	19.9	20.2	18.7	18.5	16.5	15.9	13.7	12.6	10.5	10.1	8.90	8.70
135.0	17.4	17.8	16.2	16.2	14.2	13.7	11.8	10.9	9.09	8.80	7.70	7.70
140.0	14.5	15.0	13.5	13.5	11.8	11.5	9.70	9.00	7.50	7.40	6.40	6.50
145.0	11.1	11.5	10.3	10.4	8.90	8.90	7.30	7.00	5.80	5.80	5.00	5.20
150.0	3.60	4.90	3.90	4.90	3.80	4.60	3.50	3.90	3.00	3.50	2.70	3.20
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Test System: LSG-1800**  
**Temperature: 25.3DEG**  
**Operators: G**  
**Test Date: 05-17-2018**

**Test Set: 5.0deg/s C-Gamma (TYPE C)**  
**Humidity: 65.0%**  
**Test Distance: 10.000 m**  
**Remarks: G9 LED**