

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

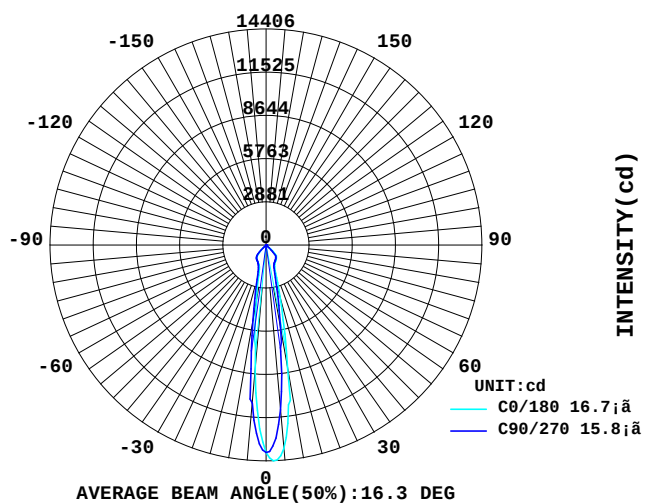
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

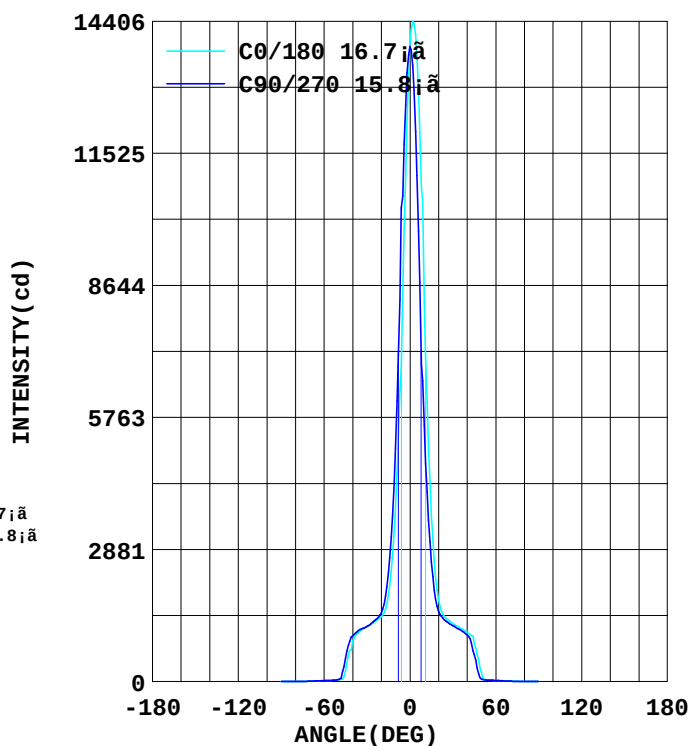
MANUFACTURER:		
Address:		
NAME: down light	TYPE: IP	WEIGHT:
SPECIFICATION:	DIMENSION: 215*86*180	SERIAL No.: LA/YE6L-990706

DATA OF LAMP		Imax(cd)	14406	S/MH(C0/180)	0.21
MODEL	SMD	EFFICIENCY(%)	100.0	S/MH(C90/270)	0.28
NOMINAL POWER(W)	40	TOTAL FLUX(lm)	3437.3	Voltage(V)	231.3
RATED VOLTAGE(V)	232	EFFICIENCY(lm/W)	85.1	Current(A)	0.326
NOMINAL FLUX(lm)	3437.4	η up(%)	0.0	Power(W)	40.38
LAMPS QUANTITY	1	η down(%)	100.0	Power Factor(PF)	0.535
TEST VOLTAGE(V)	231.4	Effective Flux(lm)	3437.4	EEI	0.160

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-18-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

Color Temperature Data List

Report number:

MANUFACTURER:		
Address:		
NAME: down light	TYPE: IP	WEIGHT:
SPECIFICATION:	DIMENSION: 215*86*180	SERIAL No.: LA/YE6L-990706

Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-18-2020

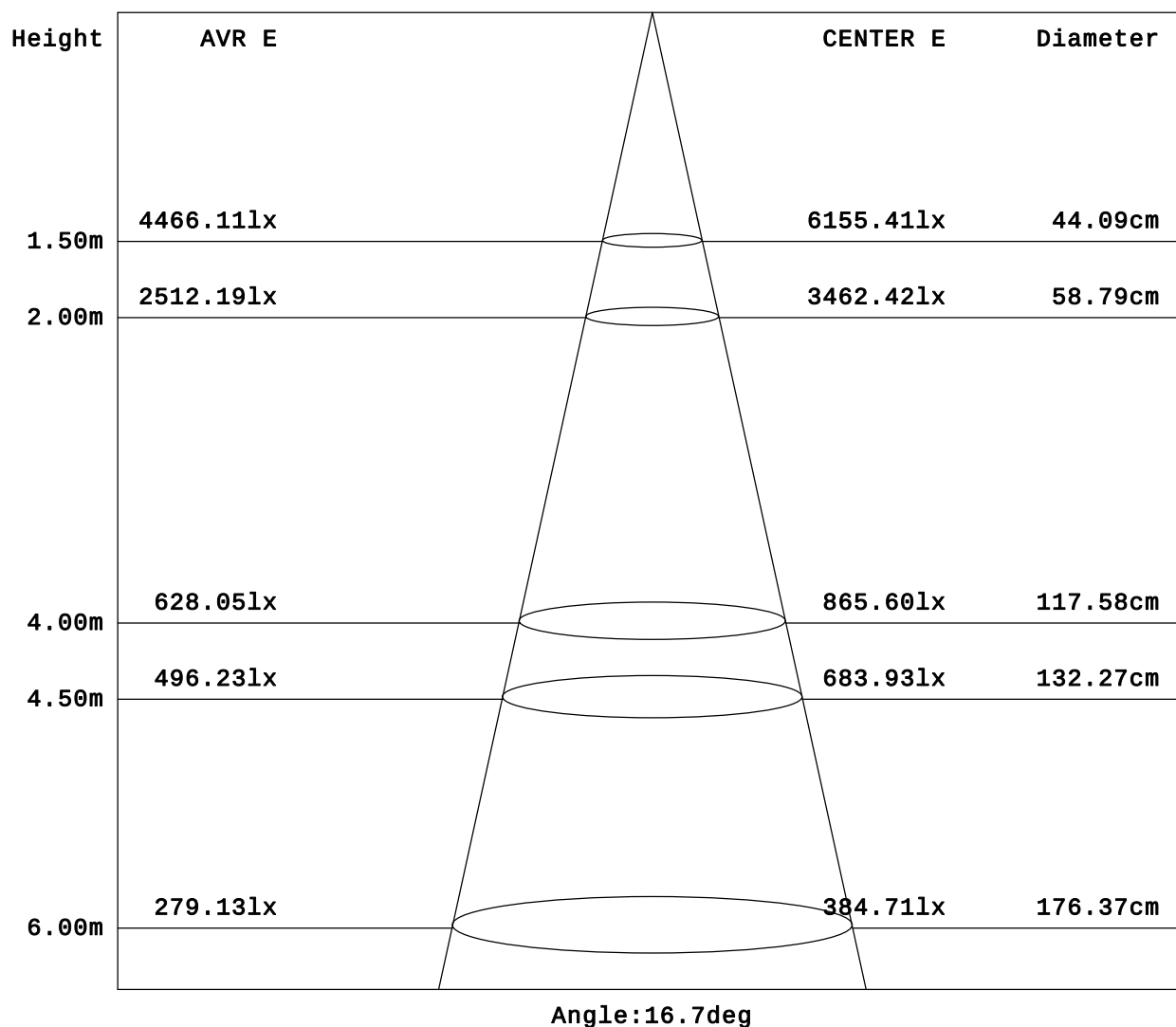
Test Set: 5.0deg/s C-Gamma (TYPE C)
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Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:		
Address:		
NAME: down light	TYPE: IP	WEIGHT:
SPECIFICATION:	DIMENSION: 215*86*180	SERIAL No.: LA/YE6L-990706



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-18-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: down light	TYPE: IP	WEIGHT:
SPECIFICATION:	DIMENSION: 215*86*180	SERIAL No.: LA/YE6L-990706

γ	C0	C90	C180	C270					γ	zone	total
5.0	856.1	1060	1366	1104					0- 5	295.3	295.3
10.0	379.8	509.5	829.3	559.0					5- 10	575.5	870.9
15.0	188.6	237.2	363.7	261.0					10- 15	457.7	1329
20.0	141.6	149.8	180.6	154.8					15- 20	322.7	1651
25.0	129.7	132.2	139.1	132.6					20- 25	298.5	1950
30.0	119.9	120.1	126.4	121.8					25- 30	322.1	2272
35.0	109.2	113.1	117.5	113.2					30- 35	346.5	2619
40.0	87.61	99.20	107.7	101.7					35- 40	357.5	2976
45.0	24.32	51.37	83.92	59.30					40- 45	299.6	3276
50.0	3.583	4.423	21.80	5.779					45- 50	106.1	3382
55.0	2.776	2.699	2.994	3.233					50- 55	18.03	3400
60.0	2.307	2.158	2.524	2.556					55- 60	12.22	3412
65.0	1.697	1.612	2.092	1.493					60- 65	10.03	3422
70.0	0.976	0.984	1.477	0.806					65- 70	7.057	3429
75.0	0.440	0.324	0.751	0.557					70- 75	4.056	3433
80.0	0.231	0.159	0.324	0.379					75- 80	2.034	3435
85.0	0.172	0.069	0.156	0.217					80- 85	1.081	3437
90.0	0.159	0.072	0.194	0.263					85- 90	0.848	3437
95.0									90- 95		
100.0									95-100		
105.0									100-105		
110.0									105-110		
115.0									110-115		
120.0									115-120		
125.0									120-125		
130.0									125-130		
135.0									130-135		
140.0									135-140		
145.0									140-145		
150.0									145-150		
155.0									150-155		
160.0									155-160		
165.0									160-165		
170.0									165-170		
175.0									170-175		
180.0									175-180		
DEG	LUMINOUS INTENSITY: μ A10cd									UNIT:lm	

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HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

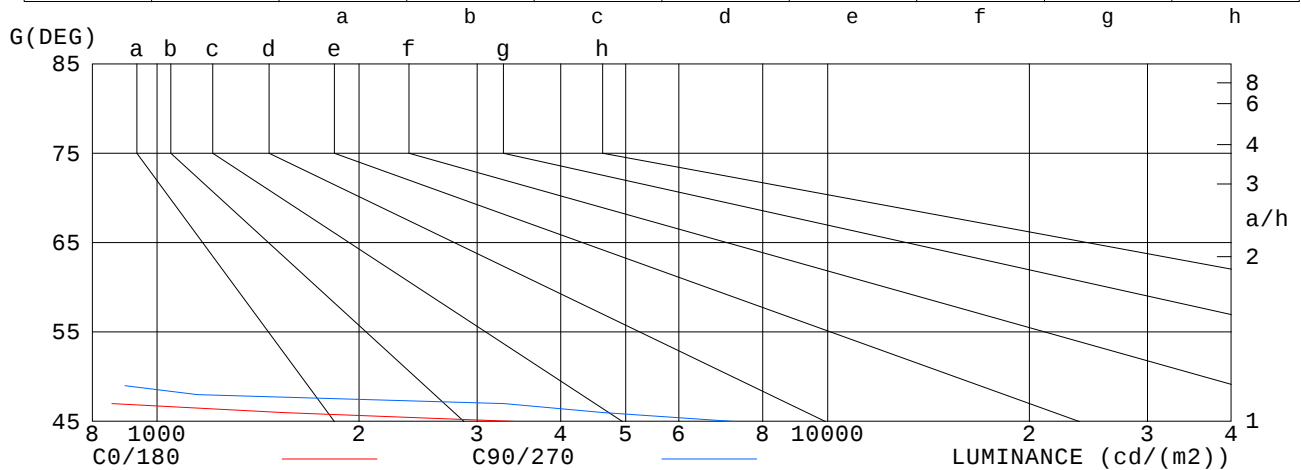
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		
Address:		
NAME: down light	TYPE: IP	WEIGHT:
SPECIFICATION:	DIMENSION: 215*86*180	SERIAL No.: LA/YE6L-990706

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	198	79
80	133	92
75	170	125
70	285	288
65	402	382
60	461	432
55	484	471
50	557	688
45	3441	7265

Test System:HOP00 HPG1600
 Temperature:25.3DEG
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 Test Date:10-18-2020

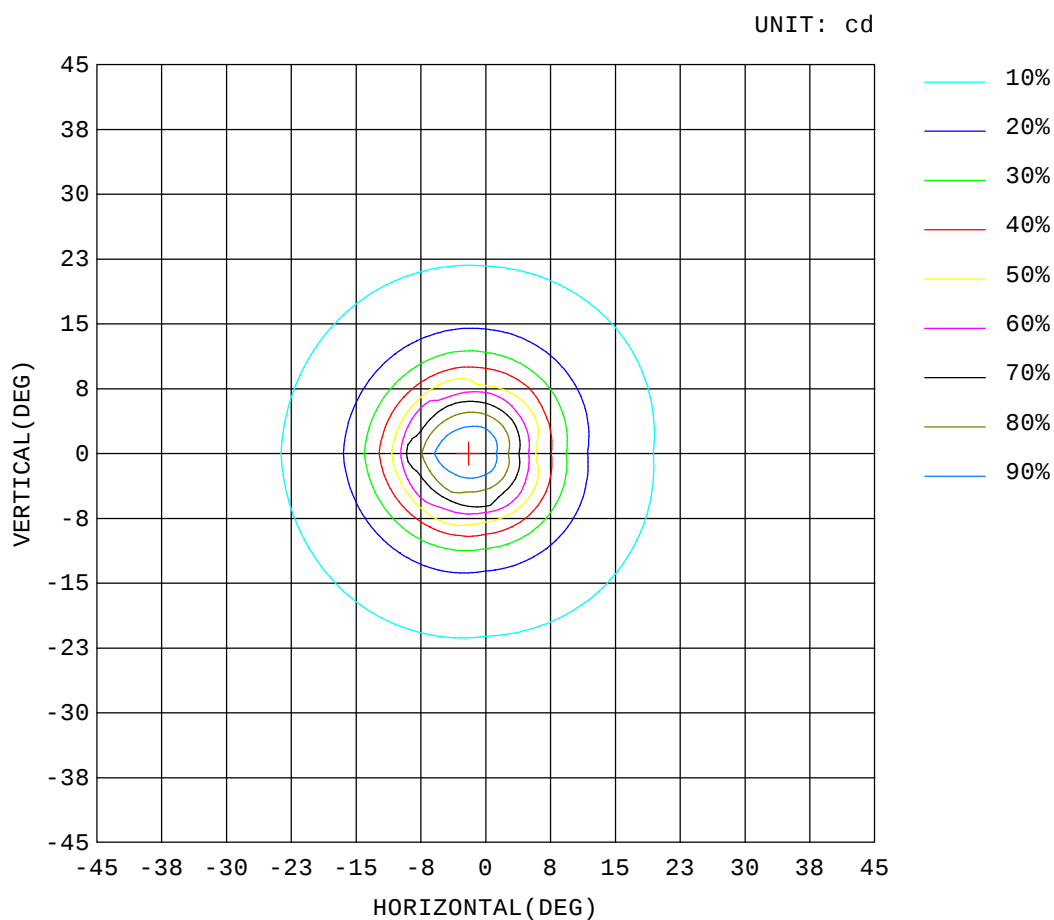
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HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: down light	TYPE: IP	WEIGHT:
SPECIFICATION:	DIMENSION: 215*86*180	SERIAL No.: LA/YE6L-990706



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-18-2020

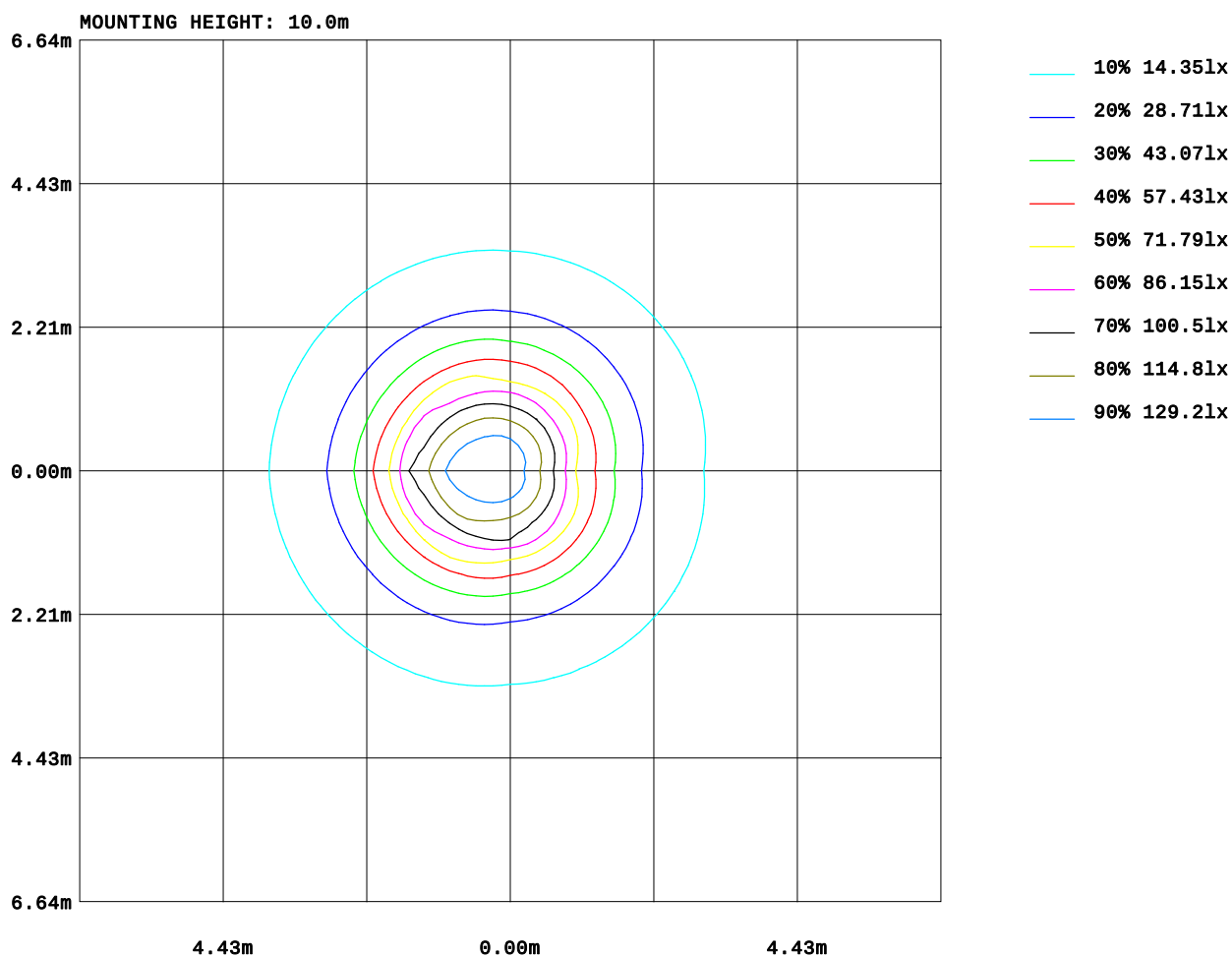
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: down light	TYPE: IP	WEIGHT:
SPECIFICATION:	DIMENSION: 215*86*180	SERIAL No.: LA/YE6L-990706



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-18-2020

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Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:		
Address:		
NAME: down light	TYPE: IP	WEIGHT:
SPECIFICATION:	DIMENSION: 215*86*180	SERIAL No.: LA/YE6L-990706

45	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.16	0.20	0.45	1.33	2.83	4.38	5.55	6.21	6.46	6.33	5.78	4.77	3.25	1.64	0.58	0.26	0.19	0.15	50.5	50.5		
40	0.19	0.58	2.15	4.43	6.23	7.26	7.79	8.08	8.21	8.17	7.94	7.47	6.62	5.02	2.72	0.84	0.26	0.17	84.1	84.1		
35	0.44	2.17	4.85	6.64	7.52	8.11	8.54	8.81	8.94	8.91	8.73	8.39	7.87	7.04	5.48	2.87	0.71	0.21	106	106		
30	1.43	4.30	6.39	7.37	8.09	8.68	9.16	9.49	9.65	9.61	9.39	9.01	8.50	7.83	6.89	5.04	2.07	0.37	123	123		
25	2.88	5.69	6.95	7.81	8.56	9.27	9.91	10.4	10.7	10.6	10.2	9.68	9.02	8.32	7.48	6.26	3.78	0.84	139	139		
20	4.18	6.26	7.28	8.15	9.04	10.0	11.4	13.5	14.9	14.3	12.3	10.6	9.60	8.72	7.86	6.84	4.93	1.67	162	162		
15	4.99	6.53	7.52	8.47	9.55	11.4	16.4	24.6	29.9	27.1	19.3	12.9	10.2	9.09	8.13	7.12	5.58	2.53	222	222		
VERTICAL (DEG)	5.42	6.70	7.69	8.73	10.1	14.3	27.0	48.3	62.2	53.6	32.6	17.1	11.0	9.39	8.31	7.30	5.97	3.04	339	339		
	5.61	6.79	7.79	8.90	10.6	17.5	38.7	76.7	98.5	83.5	43.8	20.1	11.5	9.52	8.40	7.38	6.11	3.27	465	465		
	5.60	6.79	7.79	8.90	10.6	17.5	38.3	76.5	97.7	82.6	43.6	19.7	11.4	9.51	8.40	7.38	6.11	3.26	462	462		
	5.39	6.69	7.69	8.72	10.1	14.2	26.2	46.8	61.2	52.6	31.1	16.4	10.9	9.37	8.29	7.29	5.97	3.02	332	332		
	4.94	6.52	7.52	8.44	9.53	11.3	15.9	23.2	27.3	24.6	17.9	12.4	10.1	9.08	8.10	7.12	5.56	2.47	213	213		
	4.10	6.21	7.27	8.13	9.00	9.98	11.3	13.1	14.0	13.4	11.9	10.5	9.58	8.68	7.84	6.83	4.89	1.59	159	159		
	2.76	5.61	6.91	7.80	8.51	9.21	9.88	10.4	10.6	10.5	10.2	9.65	8.97	8.27	7.47	6.22	3.70	0.73	138	138		
	1.36	4.13	6.30	7.33	8.08	8.63	9.07	9.40	9.56	9.52	9.30	8.93	8.45	7.81	6.85	4.95	1.90	0.30	122	122		
	0.42	2.01	4.65	6.51	7.46	8.09	8.52	8.77	8.87	8.85	8.69	8.37	7.85	6.97	5.36	2.68	0.55	0.19	105	105		
	0.18	0.54	1.94	4.14	6.03	7.09	7.68	8.00	8.13	8.09	7.86	7.36	6.45	4.83	2.42	0.63	0.22	0.16	81.8	81.8		
0.15	0.19	0.41	1.17	2.45	3.98	5.16	5.91	6.17	6.04	5.47	4.38	2.85	1.26	0.42	0.22	0.17	0.14	46.6	46.6			
-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL(DEG)					10	15	20	25	30	35	40	45		
Φ t	50.2	77.9	102	123	145	181	267	409	494	439	297	198	155	132	111	87.3	58.7	24.1	3437			
Φ a	50.2	77.9	102	123	145	181	267	409	494	439	297	198	155	132	111	87.3	58.7	24.1		3437		

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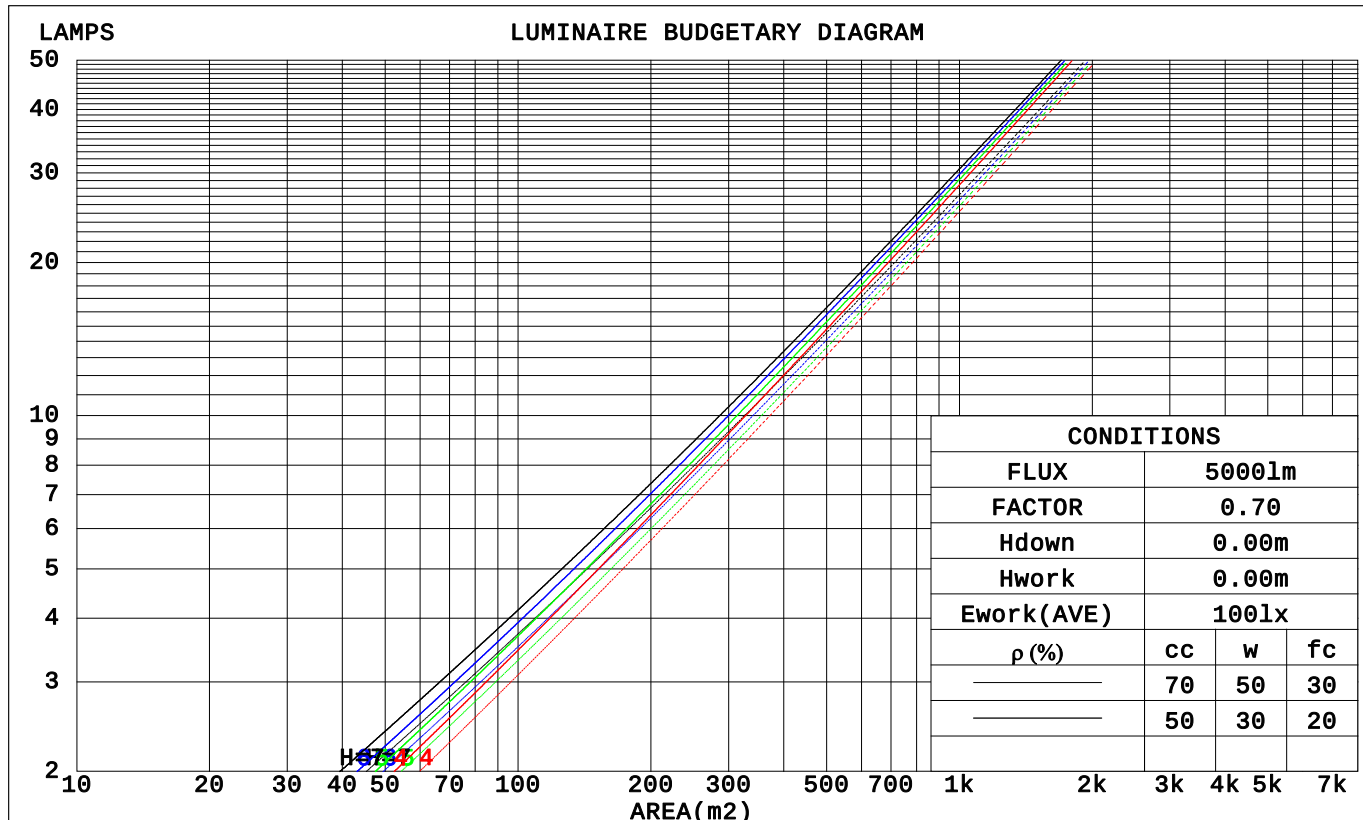
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:															
Address:															
NAME: down light								TYPE: IP				WEIGHT:			
SPECIFICATION:								DIMENSION: 215*86*180				SERIAL No.: LA/YE6L-990706			

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



Test System:HOP00 HPG1600
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HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER:														
Address:														
NAME: down light								TYPE: IP				WEIGHT:		
SPECIFICATION:								DIMENSION: 215*86*180				SERIAL No.: LA/YE6L-990706		

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.172	.098	.031	.165	.094	.030	.152	.087	.028	.141	.081	.026	.130	.075	.024	
2.0	.164	.090	.028	.159	.087	.027	.148	.082	.026	.138	.078	.024	.129	.073	.023	
3.0	.156	.083	.025	.151	.081	.024	.142	.077	.023	.134	.073	.023	.126	.070	.022	
4.0	.148	.077	.023	.144	.075	.022	.136	.072	.022	.129	.069	.021	.123	.067	.020	
5.0	.141	.072	.021	.137	.070	.021	.130	.068	.020	.124	.066	.019	.118	.063	.019	
6.0	.134	.067	.019	.131	.066	.019	.125	.064	.019	.119	.062	.018	.114	.060	.018	
7.0	.127	.063	.018	.125	.062	.018	.119	.060	.017	.115	.059	.017	.110	.057	.017	
8.0	.121	.059	.017	.119	.059	.017	.114	.057	.016	.110	.056	.016	.106	.054	.016	
9.0	.116	.056	.016	.114	.055	.016	.110	.054	.015	.106	.053	.015	.102	.052	.015	
10.0	.111	.053	.015	.109	.053	.015	.105	.051	.014	.102	.050	.014	.098	.049	.014	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.155	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.090	.122	.098	.078	.084	.068	.055	.048	.040	.032	.016	.013	.011	
4.0	.132	.099	.073	.113	.085	.064	.078	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.123	.087	.060	.106	.075	.053	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.115	.078	.051	.099	.067	.044	.068	.047	.031	.040	.028	.019	.013	.009	.006	
7.0	.108	.070	.043	.093	.061	.037	.064	.043	.027	.037	.025	.016	.012	.008	.005	
8.0	.102	.064	.037	.088	.055	.032	.061	.039	.023	.035	.023	.014	.011	.007	.005	
9.0	.097	.058	.032	.084	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.092	.054	.028	.080	.047	.025	.055	.033	.017	.032	.019	.010	.010	.006	.003	

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Test Set: 5.0deg/s C-Gamma (TYPE C)
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 Test Distance:5.150 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

Uncorrected UGR Table

Report number:

MANUFACTURER:											
Address:											
NAME: down light					TYPE: IP			WEIGHT:			
SPECIFICATION:					DIMENSION: 215*86*180			SERIAL No.: LA/YE6L-990706			
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	Viewed crosswise					Viewed endwise					
x = 2H y = 2H	2H	13.6	14.5	13.8	14.7	14.8	14.2	15.1	14.5	15.3	15.5
	3H	13.5	14.3	13.7	14.5	14.7	14.1	14.9	14.3	15.1	15.3
	4H	13.4	14.2	13.6	14.4	14.6	14.0	14.8	14.3	15.0	15.2
	6H	13.3	14.0	13.6	14.3	14.5	13.9	14.6	14.2	14.9	15.1
	8H	13.2	14.0	13.5	14.2	14.5	13.9	14.6	14.2	14.8	15.1
	12H	13.2	13.9	13.5	14.1	14.4	13.8	14.5	14.1	14.8	15.0
4H	2H	13.4	14.1	13.6	14.4	14.6	14.0	14.8	14.3	15.0	15.2
	3H	13.2	13.9	13.5	14.2	14.4	13.8	14.5	14.2	14.8	15.1
	4H	13.1	13.7	13.5	14.0	14.3	13.7	14.4	14.1	14.7	15.0
	6H	13.0	13.6	13.4	13.9	14.3	13.6	14.2	14.0	14.5	14.9
	8H	13.0	13.5	13.4	13.8	14.2	13.6	14.1	14.0	14.5	14.8
	12H	12.9	13.4	13.3	13.8	14.2	13.5	14.0	14.0	14.4	14.8
8H	4H	13.0	13.5	13.4	13.8	14.2	13.6	14.1	14.0	14.5	14.8
	6H	12.9	13.3	13.3	13.7	14.1	13.5	13.9	13.9	14.3	14.7
	8H	12.8	13.2	13.3	13.6	14.1	13.4	13.8	13.9	14.2	14.7
	12H	12.8	13.1	13.2	13.5	14.0	13.4	13.7	13.9	14.1	14.6
12H	4H	12.9	13.4	13.3	13.8	14.1	13.5	14.0	14.0	14.4	14.8
	6H	12.8	13.2	13.3	13.6	14.0	13.4	13.8	13.9	14.2	14.7
	8H	12.8	13.1	13.2	13.5	14.0	13.4	13.7	13.9	14.1	14.6
Variations with the observer position at spacings:											
S = 1.0H	+ 2.9 / -13.2					+ 3.0 / -13.7					
1.5H	+ 4.9 / -12.7					+ 4.4 / -13.4					
2.0H	+ 8.1 / - 3.9					+ 9.5 / - 7.7					

CIE Pub.117 Corrected 3437 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.3)

Test System:HOP00 HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:10-18-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.150 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:		
Address:		
NAME: down light	TYPE: IP	WEIGHT:
SPECIFICATION:	DIMENSION: 215*86*180	SERIAL No.: LA/YE6L-990706

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	83	76	72	83	76	72	82	75	72	68
0.80	91	85	81	91	84	80	89	84	80	76
1.00	97	91	87	96	90	86	94	90	86	81
1.25	101	96	92	100	95	91	98	94	91	86
1.50	104	99	95	103	98	95	101	97	94	89
2.00	107	103	100	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	105	102	99	93
3.00	111	107	104	109	106	103	106	103	101	95
4.00	113	110	108	111	108	106	107	105	104	96
5.00	114	112	110	112	110	108	108	107	105	97
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

Test System:HOP00 HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:10-18-2020

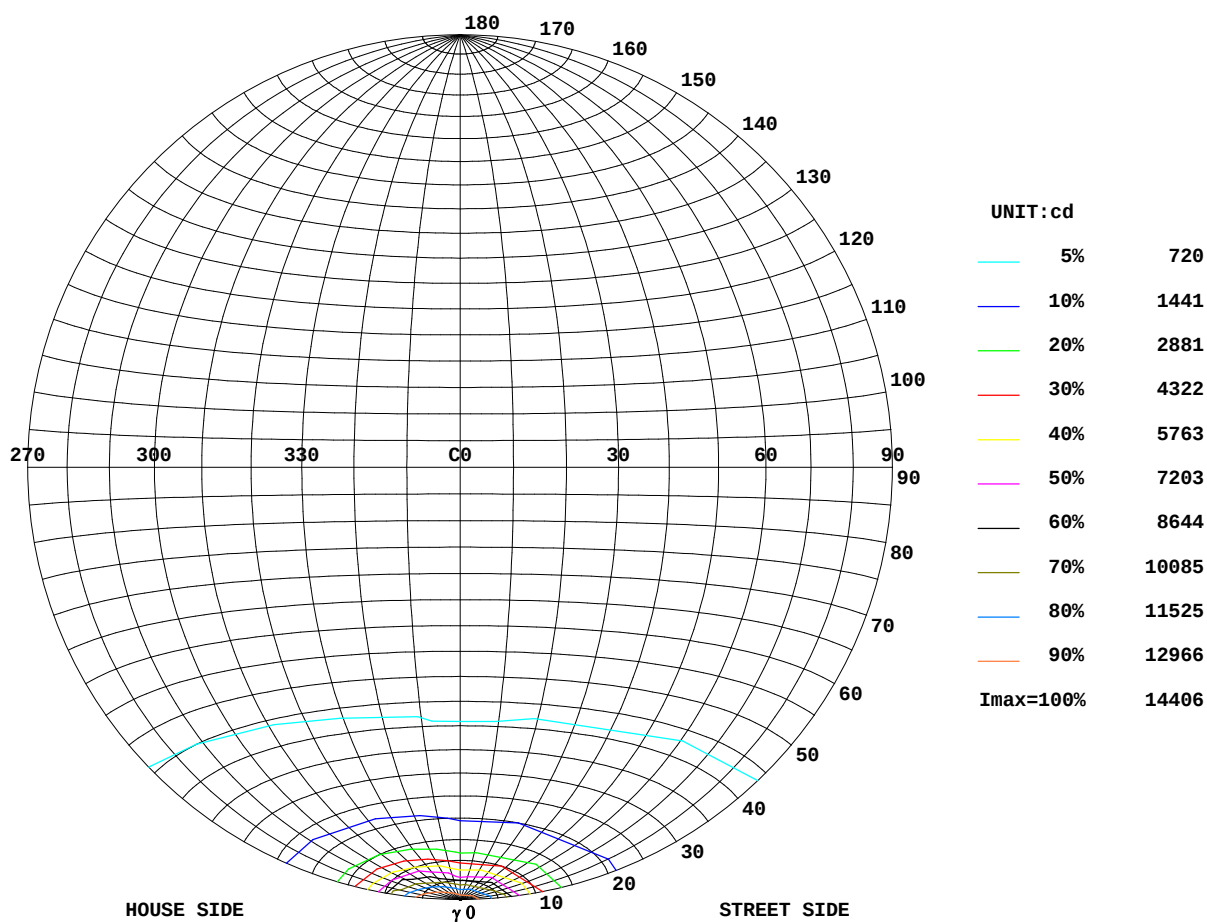
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.150 m
 Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: down light	TYPE: IP	WEIGHT:
SPECIFICATION:	DIMENSION: 215*86*180	SERIAL No.: LA/YE6L-990706



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-18-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

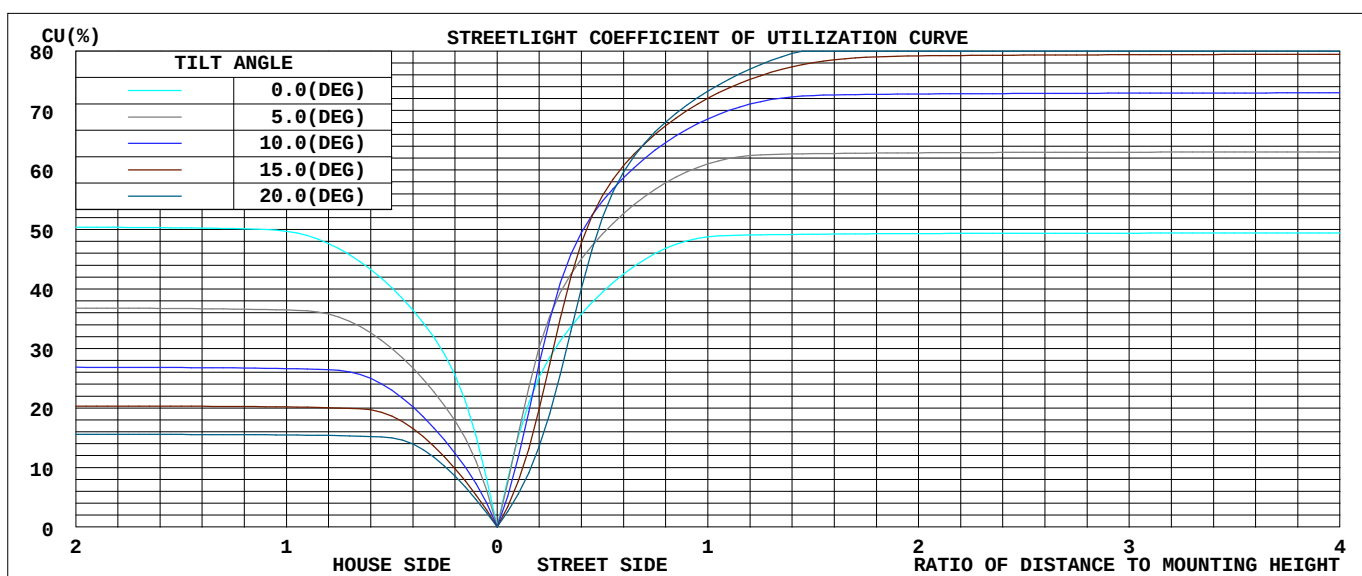
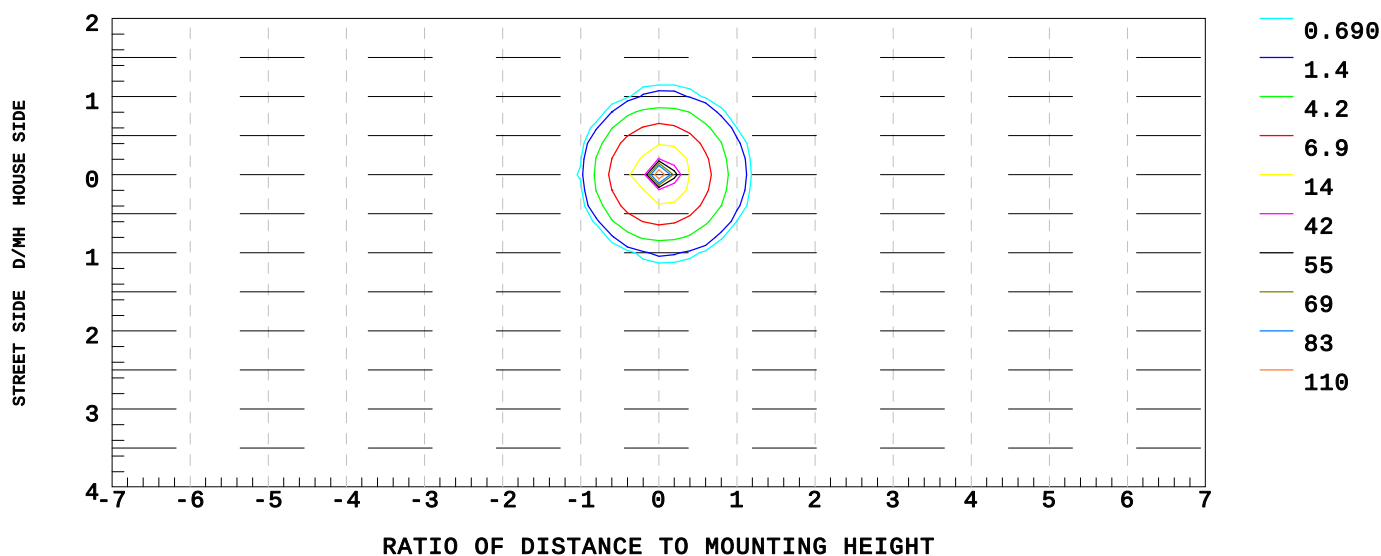
HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: down light	TYPE: IP	WEIGHT:
SPECIFICATION:	DIMENSION: 215*86*180	SERIAL No.: LA/YE6L-990706

ILLUMINANCE AT MH=10 m, Enadir = 138.50 lx



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-18-2020

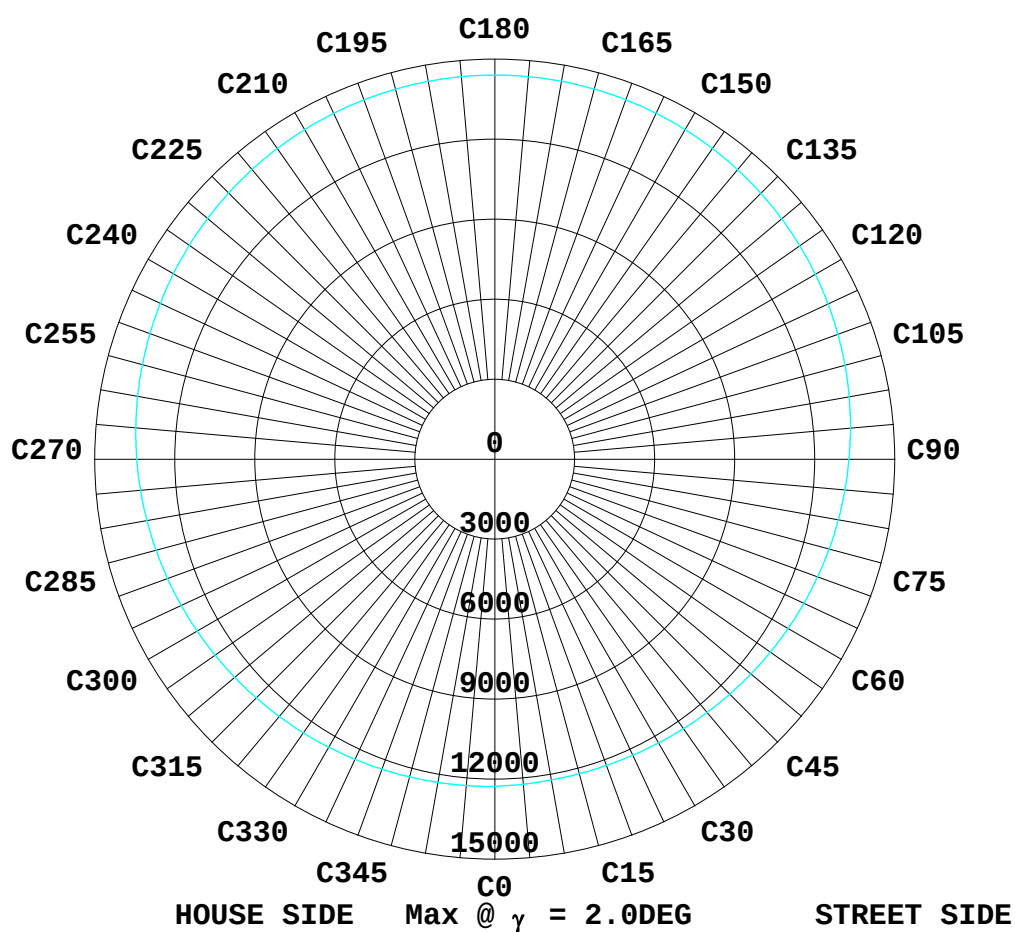
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: down light	TYPE: IP	WEIGHT:
SPECIFICATION:	DIMENSION: 215*86*180	SERIAL No.: LA/YE6L-990706



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-18-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:		
Address:		
NAME: down light	TYPE: IP	WEIGHT:
SPECIFICATION:	DIMENSION: 215*86*180	SERIAL No.: LA/YE6L-990706

UNIT: μ A10cd

C(DEG)				
γ (DEG)	0	90	180	270
0.0	1385	1385	1385	1385
5.0	856	1060	1366	1104
10.0	380	510	829	559
15.0	189	237	364	261
20.0	142	150	181	155
25.0	130	132	139	133
30.0	120	120	126	122
35.0	109	113	118	113
40.0	87.6	99.2	108	102
45.0	24.3	51.3	83.9	59.3
50.0	3.58	4.42	21.8	5.77
55.0	2.77	2.69	2.99	3.23
60.0	2.30	2.15	2.52	2.55
65.0	1.69	1.61	2.09	1.49
70.0	0.98	0.98	1.47	0.81
75.0	0.44	0.32	0.75	0.56
80.0	0.23	0.16	0.32	0.38
85.0	0.17	0.07	0.16	0.22
90.0	0.16	0.07	0.19	0.26

Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-18-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks: