

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

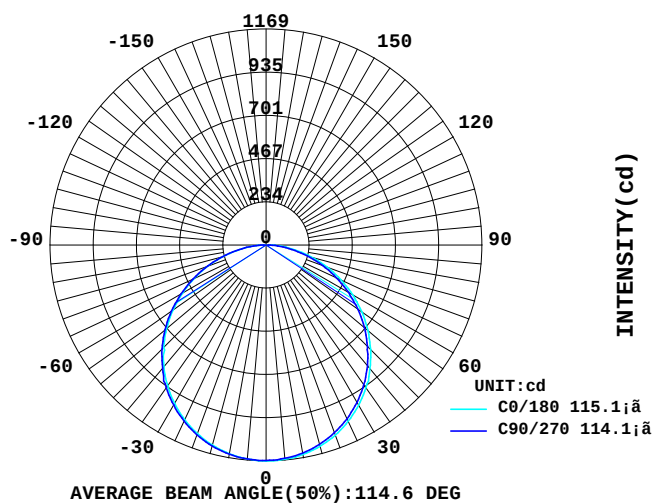
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

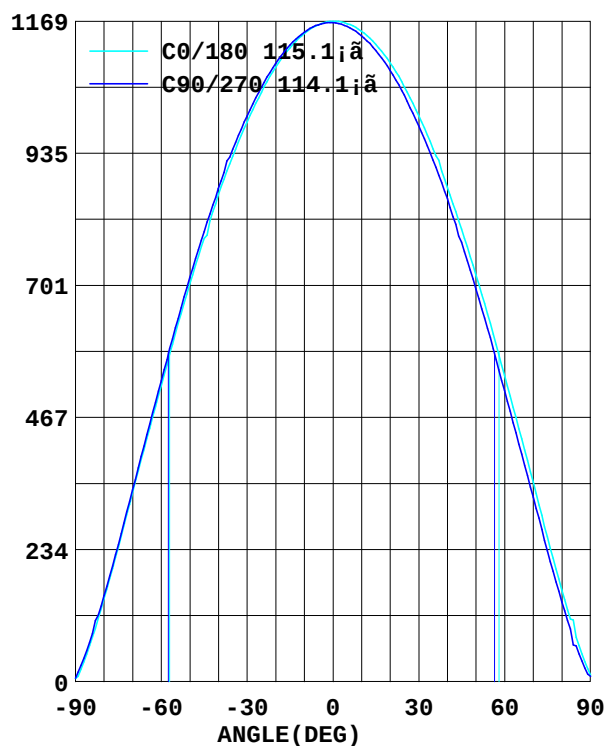
MANUFACTURER:		
Address:		
NAME: downlight	TYPE: panel	WEIGHT: 1.5
SPECIFICATION:	DIMENSION: 60*60	SERIAL No.:

DATA OF LAMP		Imax(cd)	1169	S/MH(C0/180)	1.26
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.28
NOMINAL POWER(W)	50	TOTAL FLUX(lm)	3420.8	Voltage(V)	231.1
RATED VOLTAGE(V)	232	EFFICIENCY(lm/W)	71.9	Current(A)	0.213
NOMINAL FLUX(lm)	3420.8	η up(%)	0.0	Power(W)	47.57
LAMPS QUANTITY	1	η down(%)	100.0	Power Factor(PF)	0.965
TEST VOLTAGE(V)	231.2	Effective Flux(lm)	2657.2	EEI	0.244

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: downlight	TYPE: panel	WEIGHT: 1.5
SPECIFICATION:	DIMENSION: 60*60	SERIAL No.:

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

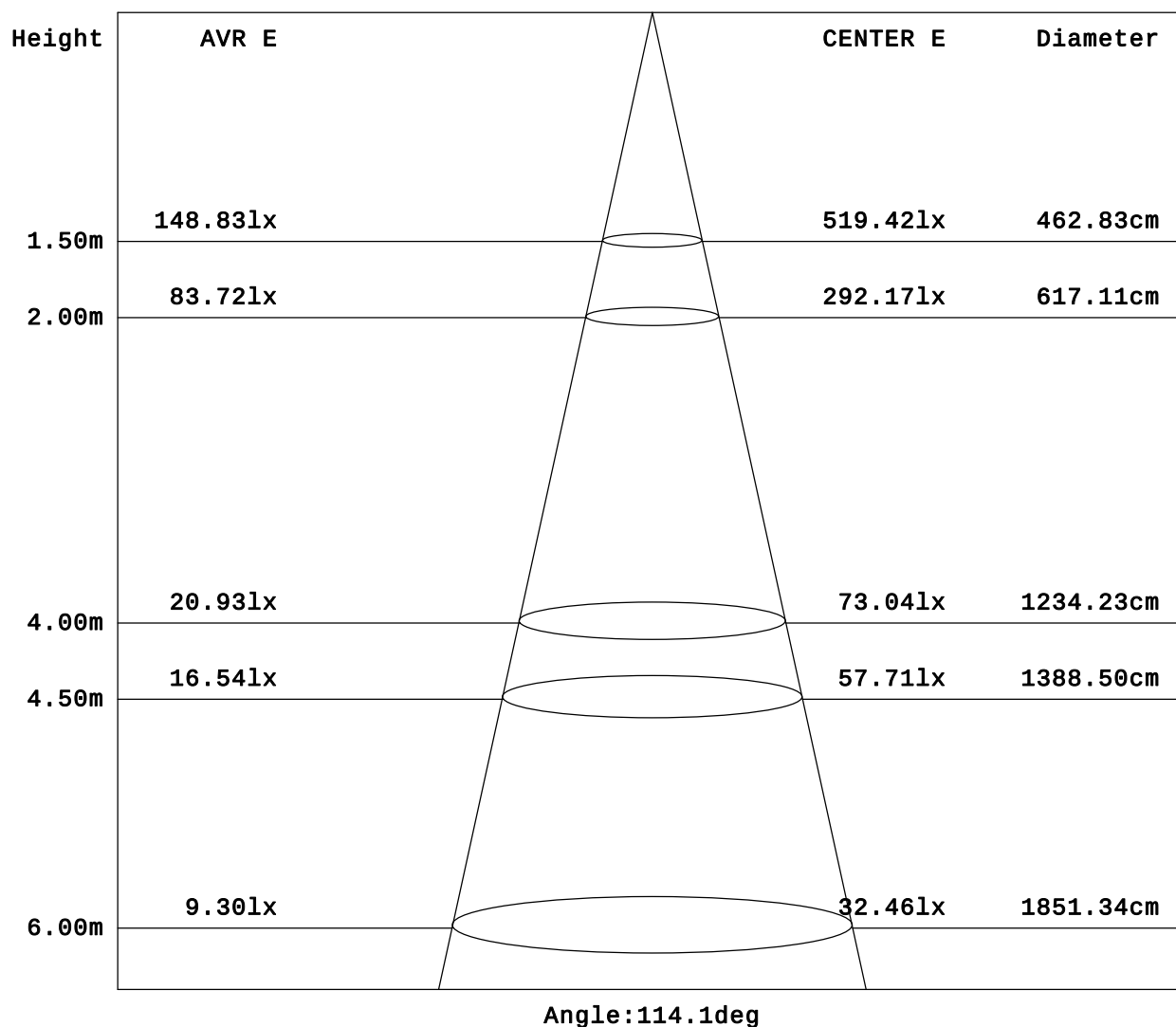
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:		
Address:		
NAME: downlight	TYPE: panel	WEIGHT: 1.5
SPECIFICATION:	DIMENSION: 60*60	SERIAL No.:



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

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: downlight	TYPE: panel	WEIGHT: 1.5
SPECIFICATION:	DIMENSION: 60*60	SERIAL No.:

γ	C0	C90	C180	C270					γ	zone	total
5.0	1162	1162	1164	1159					0- 5	27.84	27.84
10.0	1147	1149	1151	1143					5- 10	82.62	110.4
15.0	1121	1126	1128	1117					10- 15	134.6	245.1
20.0	1087	1094	1095	1081					15- 20	182.3	427.4
25.0	1043	1052	1052	1038					20- 25	223.9	651.4
30.0	990.1	1001	1002	983.9					25- 30	258.1	909.6
35.0	929.4	942.0	942.1	922.3					30- 35	283.9	1194
40.0	861.0	872.5	874.0	854.2					35- 40	300.5	1494
45.0	784.3	796.4	800.7	777.4					40- 45	306.1	1800
50.0	703.7	714.9	719.1	694.1					45- 50	302.6	2103
55.0	615.8	625.9	634.3	608.4					50- 55	288.8	2392
60.0	523.5	532.0	542.3	515.8					55- 60	265.4	2657
65.0	430.5	437.1	447.3	420.1					60- 65	233.8	2891
70.0	333.8	339.0	353.2	326.3					65- 70	195.3	3087
75.0	237.5	242.1	256.0	231.6					70- 75	151.2	3238
80.0	146.7	151.8	162.3	141.4					75- 80	104.6	3342
85.0	63.97	69.14	78.42	62.88					80- 85	59.16	3402
90.0	5.251	5.914	11.51	9.282					85- 90	19.22	3421
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:cd									UNIT:lm	

Test System:HOP00 HPG1600
 Temperature:25.3DEG
 Operators:
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Test Set: 5.0deg/s C-Gamma (TYPE C)
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HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

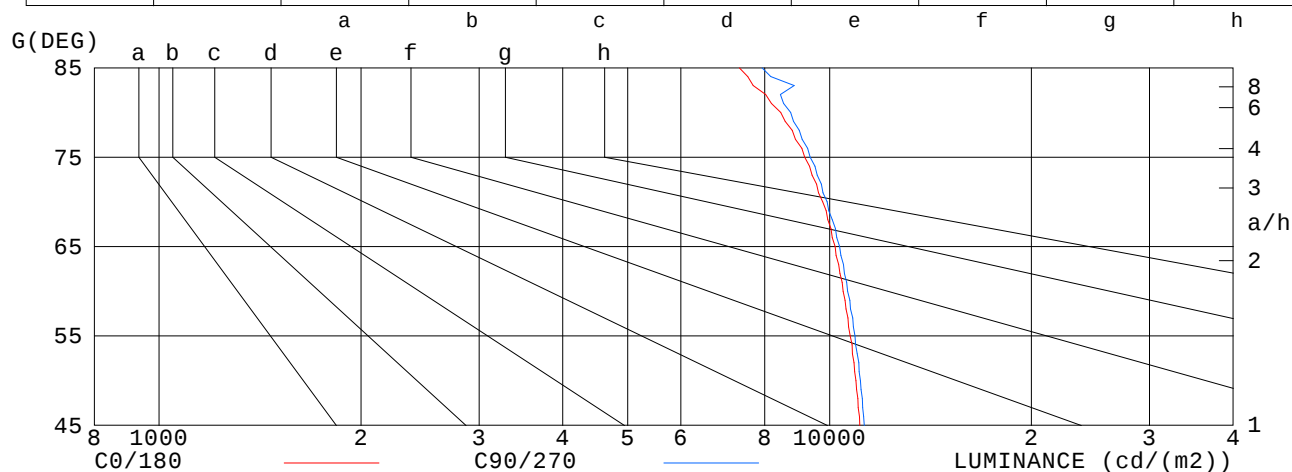
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		
Address:		
NAME: downlight	TYPE: panel	WEIGHT: 1.5
SPECIFICATION:	DIMENSION: 60*60	SERIAL No.:

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	7340	7933
80	8451	8747
75	9178	9356
70	9760	9912
65	10187	10345
60	10472	10641
55	10737	10914
50	10948	11123
45	11093	11263

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

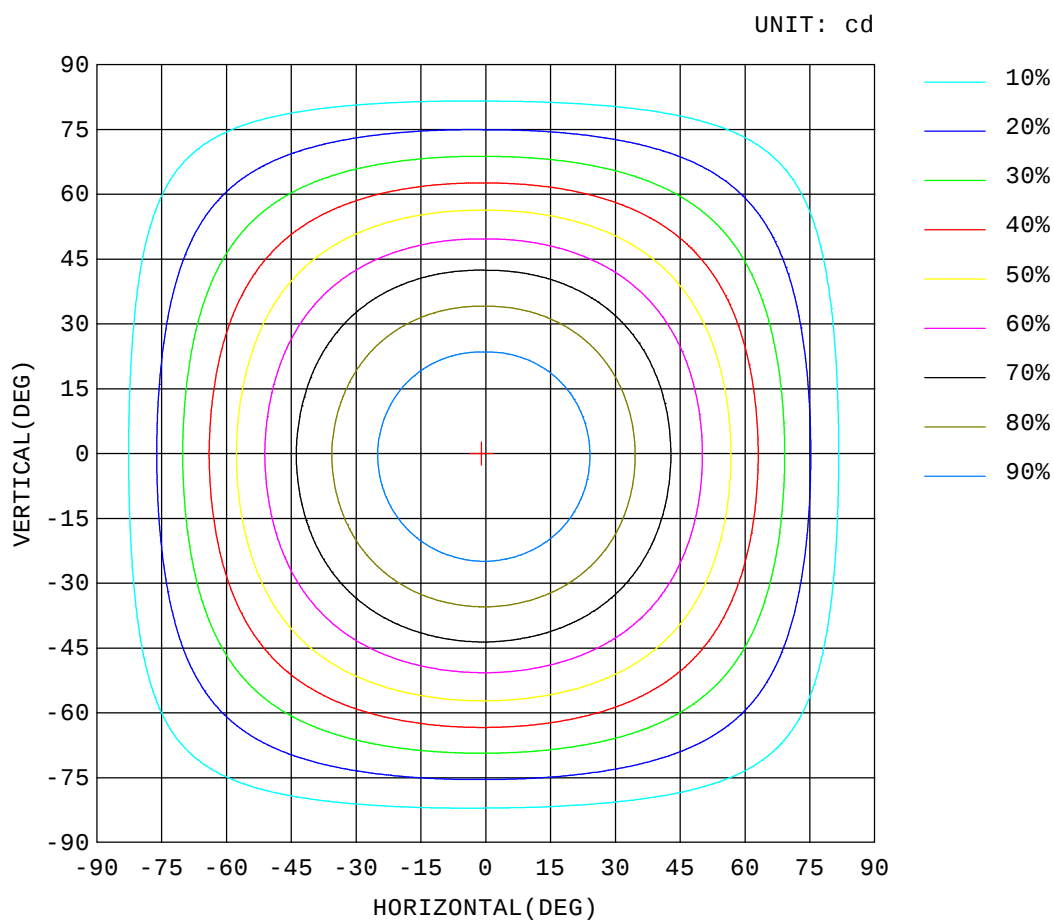
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 Humidity:65.0%
 Test Distance:5.150 m
 Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: downlight	TYPE: panel	WEIGHT: 1.5
SPECIFICATION:	DIMENSION: 60*60	SERIAL No.:



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

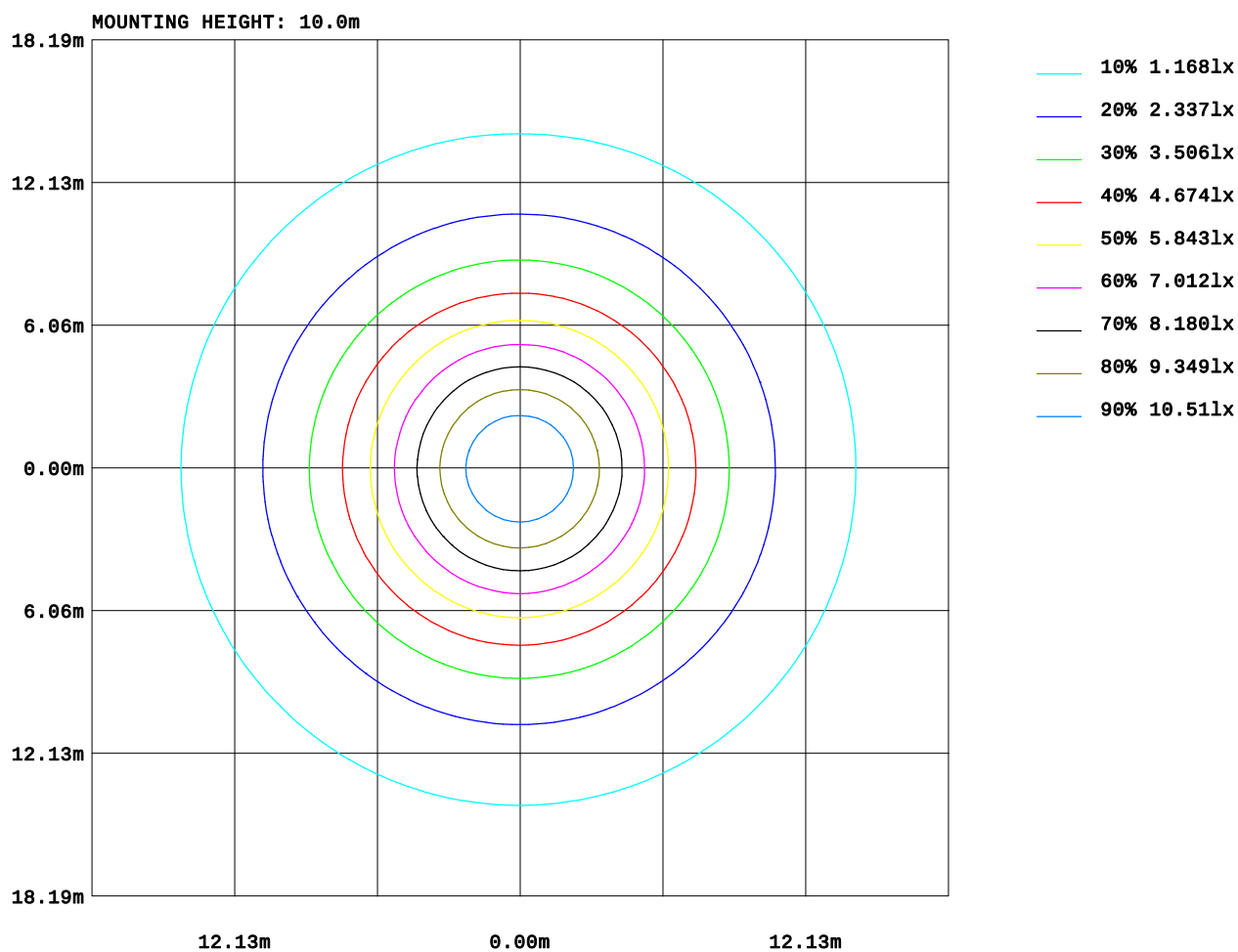
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: downlight	TYPE: panel	WEIGHT: 1.5
SPECIFICATION:	DIMENSION: 60*60	SERIAL No.:



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

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:		
Address:		
NAME: downlight	TYPE: panel	WEIGHT: 1.5
SPECIFICATION:	DIMENSION: 60*60	SERIAL No.:

90	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.05	0.20	0.45	0.77	1.11	1.45	1.73	1.92	1.99	1.96	1.84	1.60	1.29	0.95	0.62	0.33	0.12	0.02	18.4	17.2		
80	0.08	0.49	1.25	2.28	3.50	4.75	5.85	6.65	7.03	7.00	6.56	5.71	4.58	3.32	2.09	1.07	0.38	0.05	62.7	59.3		
70	0.12	0.81	2.11	4.00	6.23	8.51	10.5	11.9	12.7	12.6	11.8	10.3	8.32	6.03	3.81	1.95	0.68	0.09	113	107		
60	0.16	1.10	3.01	5.74	8.95	12.2	15.0	17.2	18.3	18.2	17.1	14.9	12.0	8.73	5.53	2.84	0.99	0.12	162	154		
50	0.20	1.39	3.85	7.35	11.4	15.6	19.3	22.0	23.4	23.3	21.9	19.1	15.3	11.2	7.12	3.67	1.27	0.16	208	197		
40	0.23	1.65	4.58	8.72	13.5	18.5	22.8	26.1	27.8	27.7	26.0	22.7	18.2	13.3	8.49	4.39	1.53	0.19	247	234		
30	0.26	1.85	5.16	9.83	15.2	20.8	25.7	29.3	31.2	31.2	29.2	25.5	20.5	15.0	9.57	4.96	1.73	0.21	278	264		
VERTICAL (DEG)	0.28	2.00	5.57	10.6	16.4	22.4	27.7	31.6	33.6	33.6	31.5	27.5	22.1	16.1	10.3	5.35	1.87	0.23	299	284		
	0.29	2.08	5.79	11.0	17.1	23.3	28.7	32.8	34.9	34.9	32.6	28.5	23.0	16.7	10.7	5.56	1.94	0.24	311	295		
	0.29	2.08	5.79	11.0	17.1	23.3	28.8	32.9	35.0	34.9	32.7	28.5	23.0	16.8	10.7	5.57	1.94	0.24	311	295		
	0.28	2.00	5.58	10.6	16.5	22.5	27.8	31.8	33.9	33.8	31.6	27.6	22.3	16.2	10.3	5.37	1.87	0.23	301	286		
	0.26	1.86	5.19	9.88	15.4	21.0	26.0	29.6	31.6	31.6	29.5	25.8	20.7	15.1	9.63	4.98	1.73	0.21	280	266		
	0.24	1.65	4.61	8.80	13.7	18.7	23.2	26.5	28.3	28.3	26.4	23.0	18.5	13.4	8.56	4.41	1.53	0.19	250	238		
	0.21	1.40	3.88	7.42	11.5	15.8	19.6	22.4	23.9	23.9	22.3	19.4	15.6	11.3	7.20	3.70	1.28	0.16	212	201		
	0.16	1.12	3.04	5.82	9.09	12.4	15.4	17.6	18.8	18.8	17.5	15.2	12.2	8.87	5.60	2.87	1.00	0.13	166	158		
	0.12	0.82	2.15	4.07	6.35	8.70	10.7	12.3	13.1	13.1	12.2	10.6	8.51	6.15	3.88	1.99	0.69	0.09	116	110		
	0.08	0.50	1.29	2.36	3.61	4.90	6.06	6.91	7.35	7.32	6.83	5.92	4.73	3.43	2.16	1.11	0.39	0.05	65.0	61.6		
0.05	0.21	0.46	0.80	1.19	1.57	1.89	2.12	2.22	2.20	2.04	1.76	1.41	1.02	0.65	0.34	0.13	0.02	20.1	18.9			
-90	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)				20	30	40	50	60	70	80	90		
Φ t	3.35	23.2	63.8	121	188	257	317	362	386	385	360	314	253	184	117	60.5	21.1	2.63	3421			
Φ a	0.00	0.00	0.00	121	188	257	317	362	386	385	360	314	253	184	117	0.00	0.00	0.00		2657		

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:

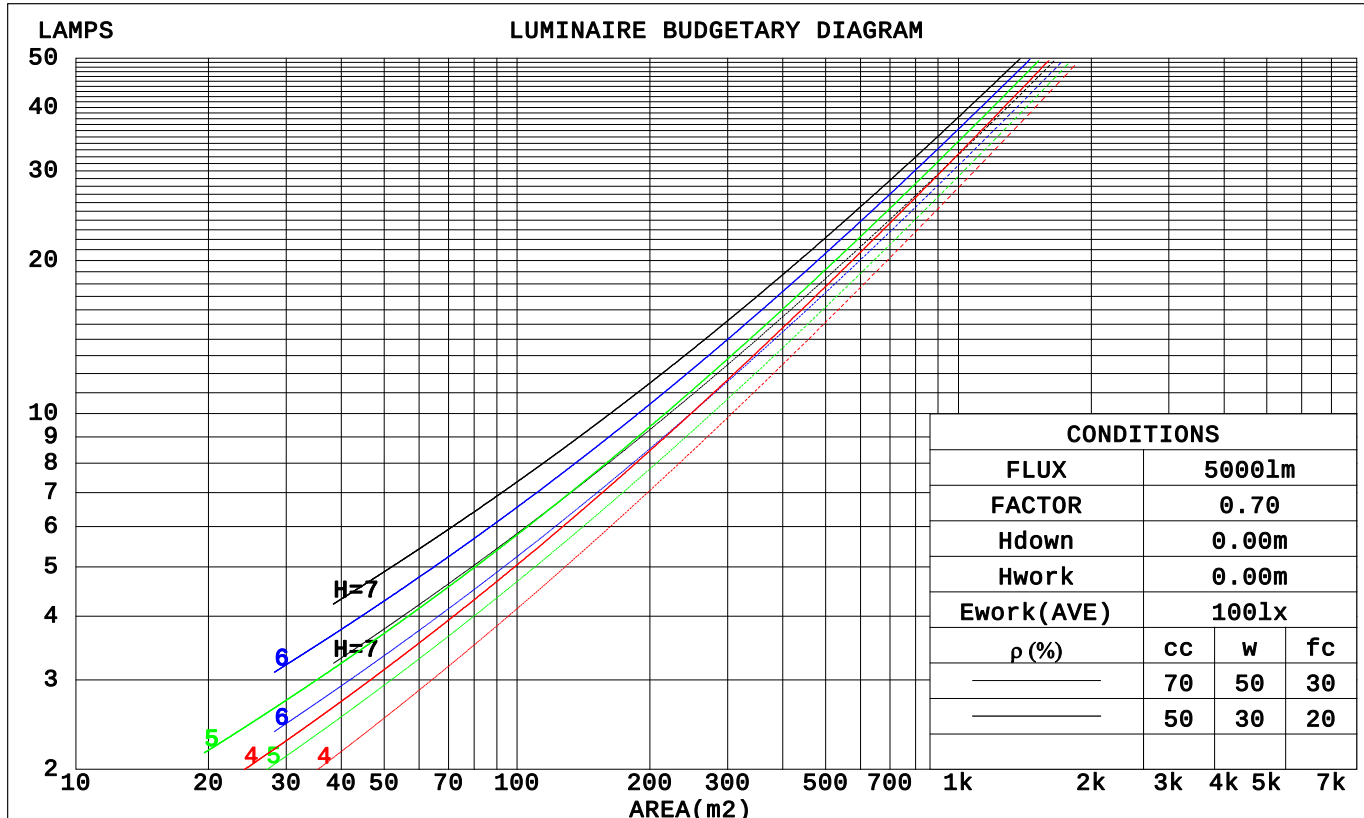
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: downlight	TYPE: panel	WEIGHT: 1.5
SPECIFICATION:	DIMENSION: 60*60	SERIAL No.:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



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%
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 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER:														
Address:														
NAME: downlight								TYPE: panel				WEIGHT: 1.5		
SPECIFICATION:								DIMENSION: 60*60				SERIAL No.:		

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	.317	.180	.057	.310	.177	.056	.297	.170	.054	.285	.164	.053	.273	.158	.051	
2.0	.297	.163	.050	.290	.160	.049	.279	.155	.048	.268	.150	.047	.258	.146	.046	
3.0	.274	.146	.044	.268	.144	.043	.258	.140	.042	.248	.136	.042	.239	.132	.041	
4.0	.252	.131	.038	.247	.129	.038	.238	.126	.038	.229	.123	.037	.221	.120	.037	
5.0	.233	.119	.034	.228	.117	.034	.220	.115	.034	.212	.112	.033	.205	.110	.033	
6.0	.215	.108	.031	.212	.107	.031	.204	.105	.030	.197	.103	.030	.191	.101	.030	
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.179	.093	.027	
8.0	.187	.091	.026	.184	.091	.026	.178	.089	.025	.173	.087	.025	.167	.086	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.158	.080	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.149	.075	.021	

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	.181	.156	.134	.155	.134	.115	.106	.092	.080	.061	.053	.046	.020	.017	.015	
2.0	.173	.132	.097	.148	.114	.084	.101	.079	.059	.059	.046	.034	.019	.015	.011	
3.0	.165	.114	.074	.142	.099	.064	.097	.069	.045	.056	.040	.026	.018	.013	.009	
4.0	.158	.101	.058	.135	.087	.050	.093	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.011	.006	
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.015	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.060	.022	.101	.052	.019	.070	.037	.014	.041	.022	.008	.013	.007	.003	

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

Uncorrected UGR Table

Report number:

MANUFACTURER:											
Address:											
NAME: downlight					TYPE: panel			WEIGHT: 1.5			
SPECIFICATION:					DIMENSION: 60*60			SERIAL No.:			
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	21.1	22.7	21.4	22.9	23.1	21.2	22.7	21.5	22.9	23.1
	3H	22.7	24.1	23.0	24.4	24.6	22.8	24.2	23.1	24.4	24.7
	4H	23.3	24.7	23.7	24.9	25.2	23.4	24.8	23.7	25.0	25.3
	6H	23.8	25.1	24.1	25.4	25.6	23.9	25.2	24.2	25.5	25.7
	8H	24.0	25.2	24.3	25.5	25.8	24.1	25.3	24.4	25.6	25.9
	12H	24.1	25.2	24.4	25.5	25.8	24.2	25.4	24.5	25.7	26.0
4H	2H	21.8	23.1	22.1	23.4	23.6	21.8	23.2	22.1	23.4	23.7
	3H	23.5	24.7	23.9	25.0	25.3	23.6	24.8	23.9	25.1	25.4
	4H	24.3	25.4	24.7	25.7	26.0	24.4	25.4	24.7	25.8	26.1
	6H	24.9	25.9	25.3	26.2	26.6	25.0	25.9	25.4	26.3	26.7
	8H	25.1	26.0	25.5	26.4	26.8	25.2	26.1	25.6	26.5	26.9
	12H	25.2	26.1	25.7	26.5	26.9	25.4	26.2	25.8	26.6	27.0
8H	4H	24.6	25.5	25.0	25.8	26.2	24.6	25.5	25.0	25.9	26.3
	6H	25.3	26.1	25.8	26.5	26.9	25.4	26.2	25.9	26.6	27.0
	8H	25.6	26.3	26.1	26.7	27.2	25.8	26.4	26.2	26.8	27.3
	12H	25.9	26.4	26.3	26.9	27.4	26.0	26.6	26.5	27.0	27.5
12H	4H	24.6	25.4	25.0	25.8	26.2	24.7	25.5	25.1	25.9	26.3
	6H	25.4	26.1	25.9	26.5	27.0	25.5	26.1	25.9	26.6	27.0
	8H	25.8	26.3	26.2	26.8	27.3	25.9	26.4	26.3	26.9	27.4
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3					

CIE Pub.117 Corrected 3421 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: downlight	TYPE: panel	WEIGHT: 1.5
SPECIFICATION:	DIMENSION: 60*60	SERIAL No.:

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) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	56	72	65	56	49
1.25	83	72	65	81	71	64	78	70	63	56
1.50	88	77	70	86	77	70	83	75	69	61
2.00	94	86	79	93	85	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	82	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	95	85
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

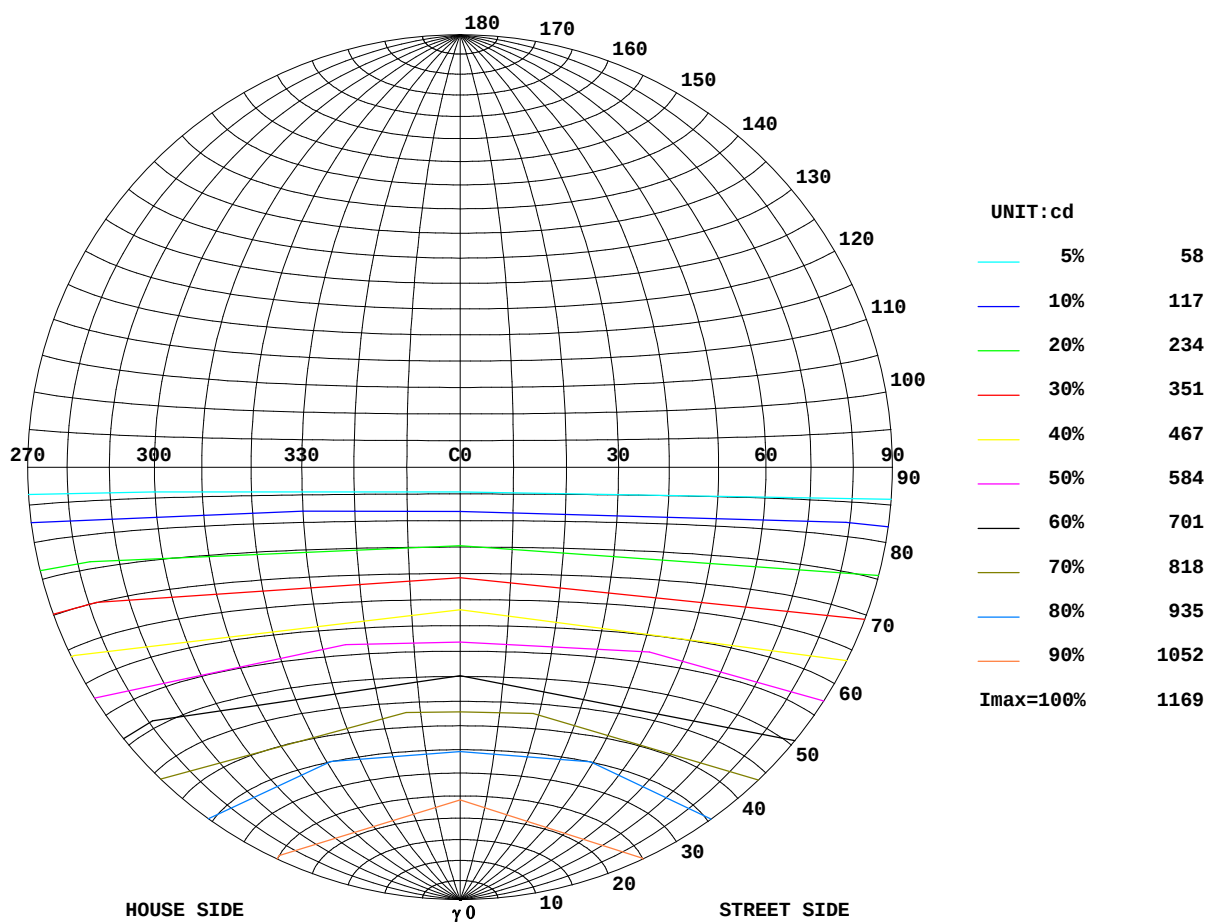
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.150 m
 Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: downlight	TYPE: panel	WEIGHT: 1.5
SPECIFICATION:	DIMENSION: 60*60	SERIAL No.:



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:

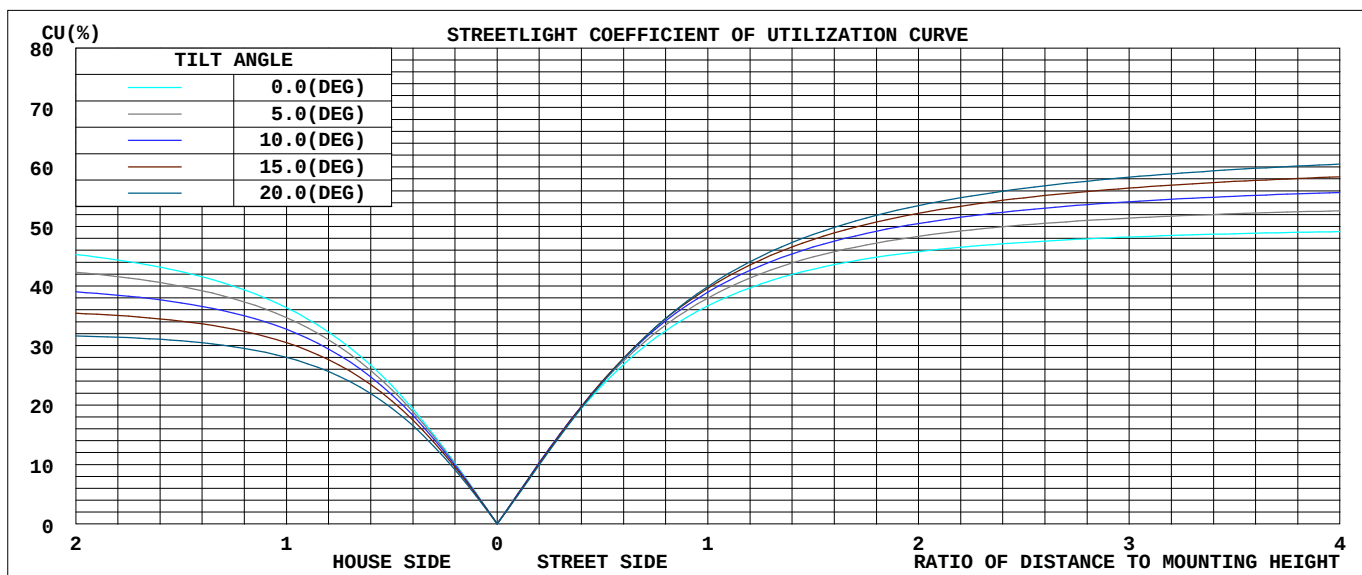
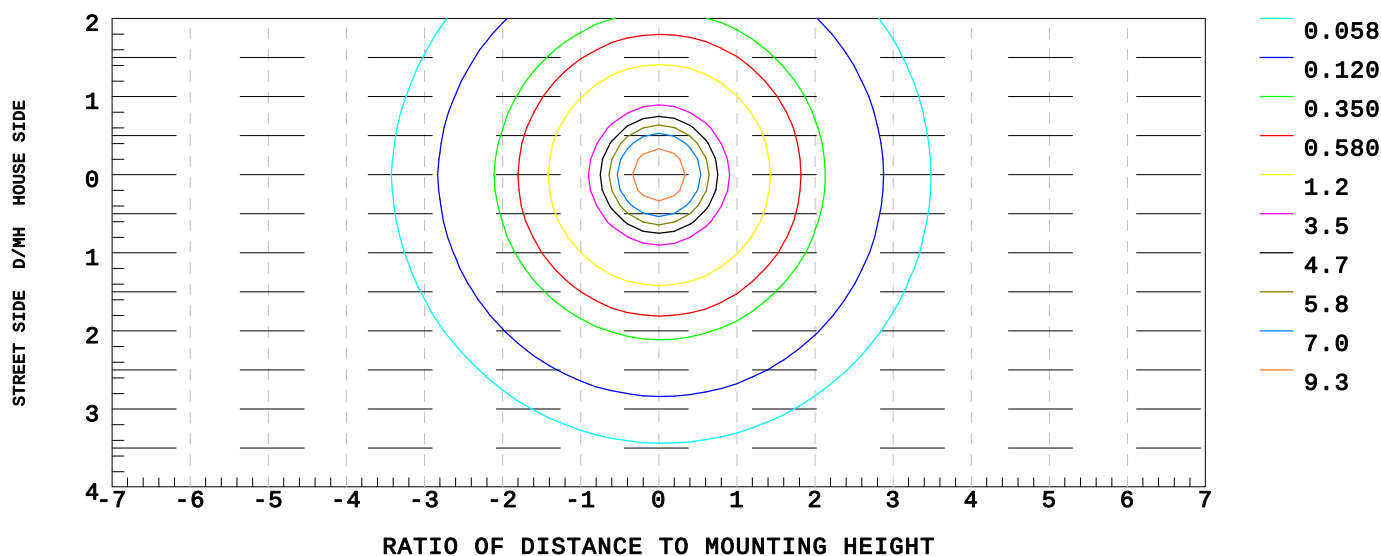
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: downlight	TYPE: panel	WEIGHT: 1.5
SPECIFICATION:	DIMENSION: 60*60	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 11.69 lx



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

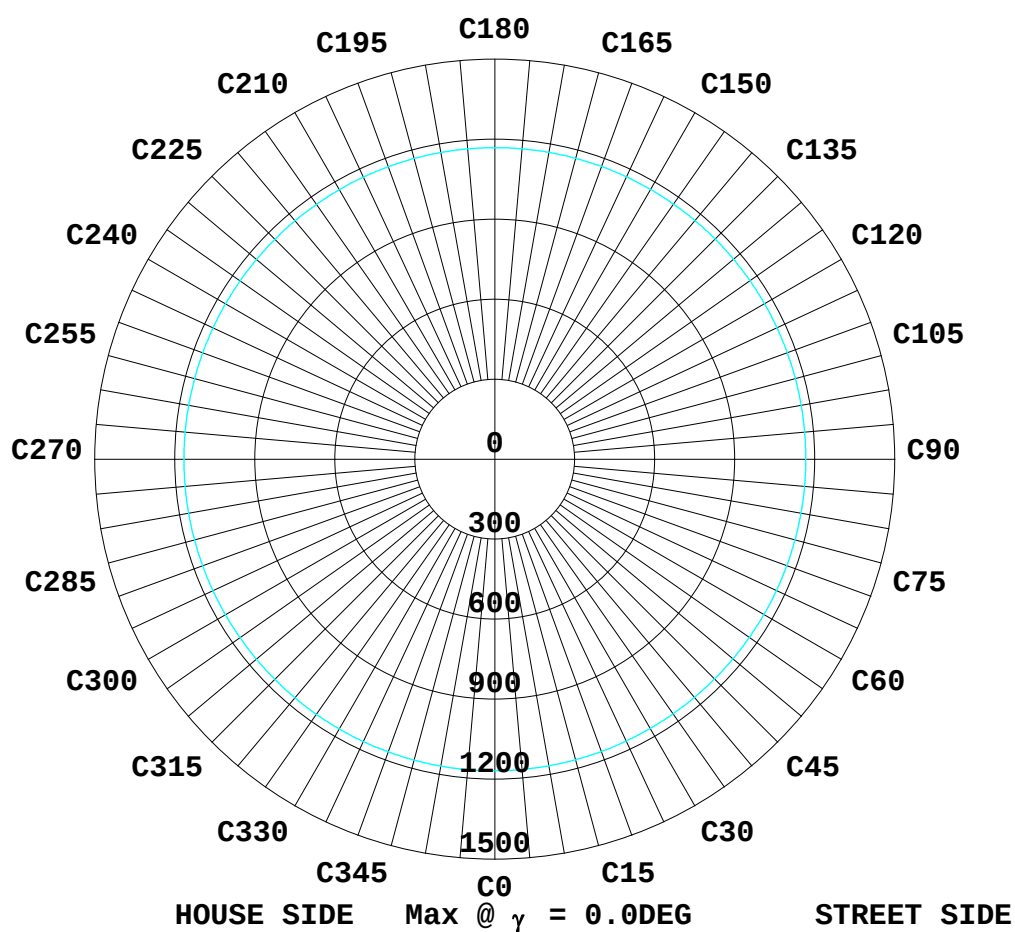
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: downlight	TYPE: panel	WEIGHT: 1.5
SPECIFICATION:	DIMENSION: 60*60	SERIAL No.:



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: downlight	TYPE: panel	WEIGHT: 1.5
SPECIFICATION:	DIMENSION: 60*60	SERIAL No.:

UNIT: cd

C(DEG) γ (DEG)	0	90	180	270
0.0	1169	1166	1169	1166
5.0	1162	1162	1164	1159
10.0	1147	1149	1151	1143
15.0	1121	1126	1128	1117
20.0	1087	1094	1095	1081
25.0	1043	1052	1052	1038
30.0	990	1001	1002	984
35.0	929	942	942	922
40.0	861	873	874	854
45.0	784	796	801	777
50.0	704	715	719	694
55.0	616	626	634	608
60.0	524	532	542	516
65.0	431	437	447	420
70.0	334	339	353	326
75.0	238	242	256	232
80.0	147	152	162	141
85.0	63.9	69.1	78.4	62.8
90.0	5.25	5.91	11.5	9.28

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: