



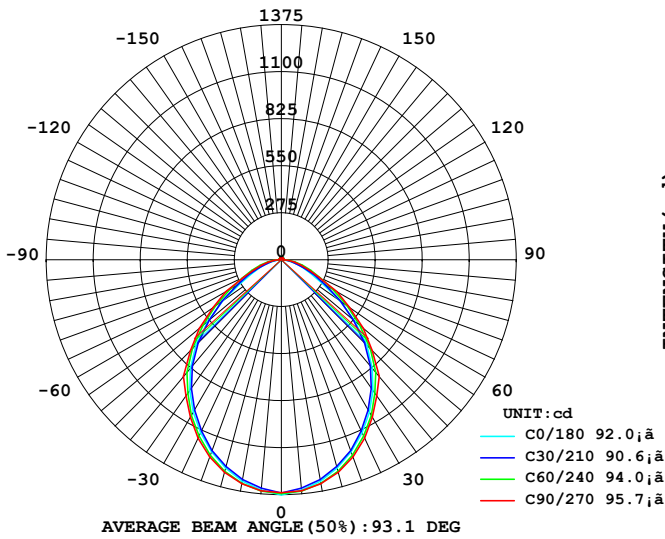
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

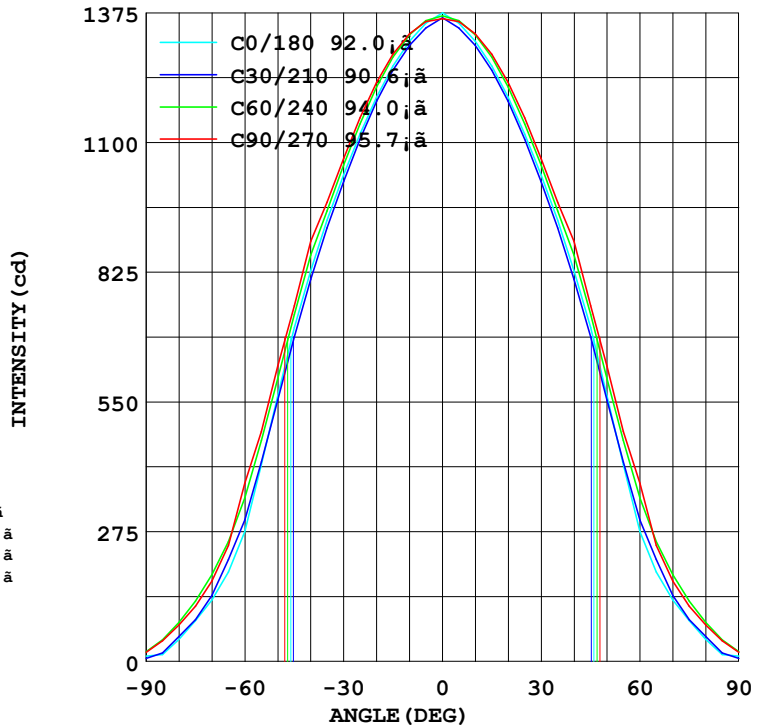
MANUFACTURER:		
Address:		
NAME: 1007-1-2-1-2	TYPE: .5W 3K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1120*50*90	SERIAL No.:

DATA OF LAMP		Imax (cd)	1375	S/MH (C0/180)	1.13
MODEL	1007-1-2-1-2	EFFICIENCY (%)	100.0	S/MH (C90/270)	1.17
NOMINAL POWER (W)	25	TOTAL FLUX (lm)	3015.8	Voltage (V)	219.3
RATED VOLTAGE (V)	219.4	EFFICIENCY (lm/W)	121.1	Current (A)	0.112
NOMINAL FLUX (lm)	3015.8	η up (%)	2.7	Power (W)	24.90
LAMPS QUANTITY	1	η down (%)	97.3	Power Factor (PF)	0.984
TEST VOLTAGE (V)	219.4	Effective Flux (lm)	2819.6	EEl	0.120

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:9.500 m
 Remarks: 3000k



Color Temperature Data List

Report number:

MANUFACTURER:		
Address:		
NAME: 1007-1-2-1-2	TYPE: .5W 3K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1120*50*90	SERIAL No.:

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:04-29-2023

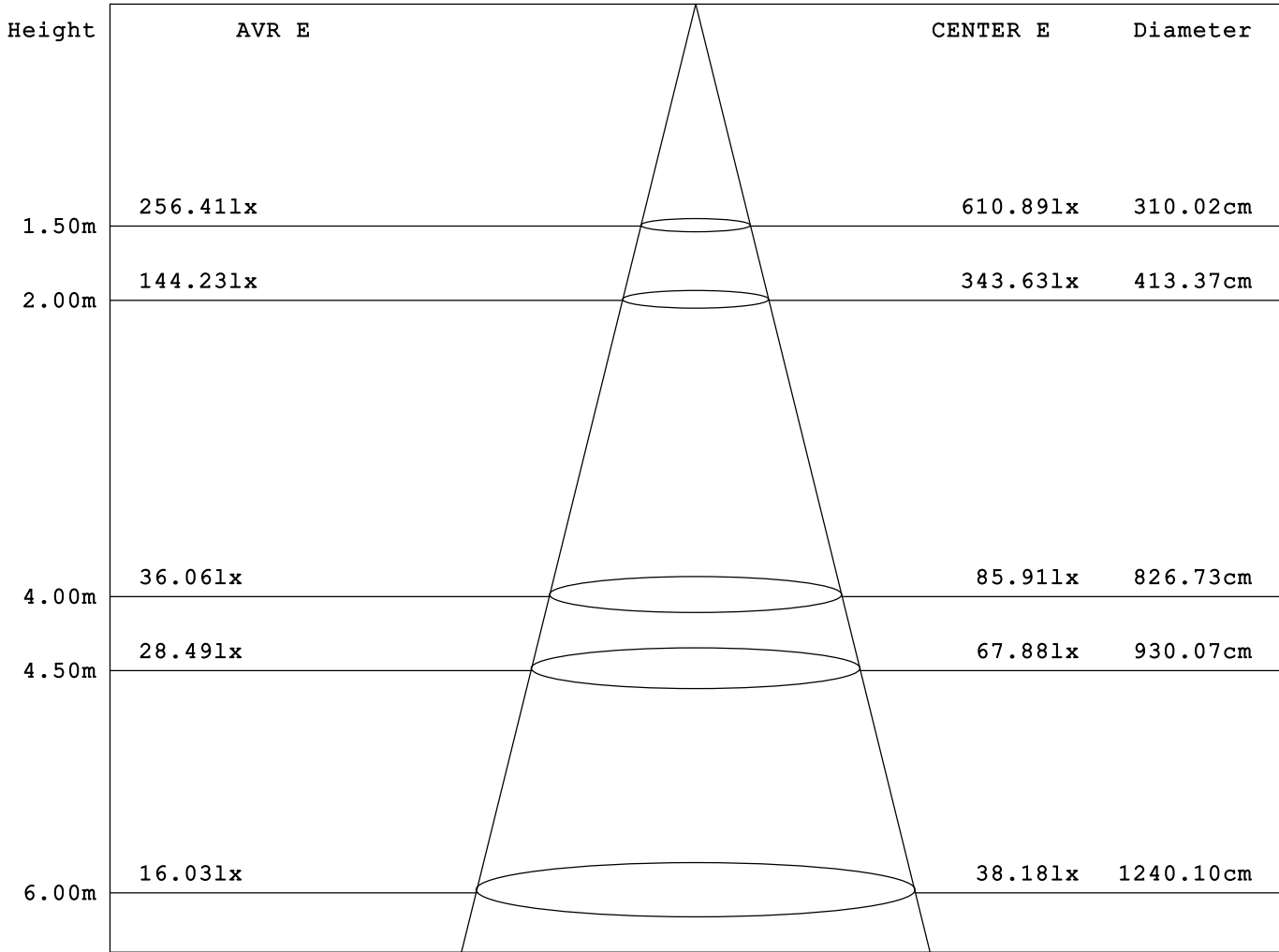
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.500 m
Remarks: 3000k



AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:		
Address:		
NAME: 1007-1-2-1-2	TYPE: .5W 3K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1120*50*90	SERIAL No.:



Angle:91.9deg

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:9.500 m
 Remarks: 3000k



ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 1007-1-2-1-2	TYPE: .5W 3K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1120*50*90	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
10.0	1314	1317	1330	1317	1314	1317	1330	1317	0- 10	128.0	128.0
20.0	1196	1202	1227	1202	1196	1202	1227	1202	10- 20	357.4	485.4
30.0	1031	1034	1066	1034	1031	1034	1066	1034	20- 30	518.5	1004
40.0	827.5	835.2	890.3	835.2	827.5	835.2	890.3	835.2	30- 40	589.6	1594
50.0	562.7	576.2	625.2	576.2	562.7	576.2	625.2	576.2	40- 50	551.7	2145
60.0	275.1	322.5	377.1	322.5	275.1	322.5	377.1	322.5	50- 60	402.2	2548
70.0	129.5	161.5	169.6	161.5	129.5	161.5	169.6	161.5	60- 70	232.2	2780
80.0	46.29	67.23	76.71	67.23	46.29	67.23	76.71	67.23	70- 80	114.7	2895
90.0	10.92	13.71	19.49	13.71	10.92	13.71	19.49	13.71	80- 90	38.57	2933
100.0	10.64	12.09	13.35	12.09	10.64	12.09	13.35	12.09	90-100	13.94	2947
110.0	11.46	10.92	12.36	10.92	11.46	10.92	12.36	10.92	100-110	11.95	2959
120.0	12.81	11.46	11.91	11.46	12.81	11.46	11.91	11.46	110-120	11.47	2971
130.0	14.44	12.27	11.46	12.27	14.44	12.27	11.46	12.27	120-130	10.82	2982
140.0	16.06	13.80	12.27	13.80	16.06	13.80	12.27	13.80	130-140	10.20	2992
150.0	17.68	15.74	14.25	15.74	17.68	15.74	14.25	15.74	140-150	9.321	3001
160.0	19.13	17.55	16.24	17.55	19.13	17.55	16.24	17.55	150-160	7.722	3009
170.0	20.21	18.86	17.86	18.86	20.21	18.86	17.86	18.86	160-170	5.160	3014
180.0	20.48	19.49	19.13	19.49	20.48	19.49	19.13	19.49	170-180	1.834	3016
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:9.500 m
 Remarks: 3000k



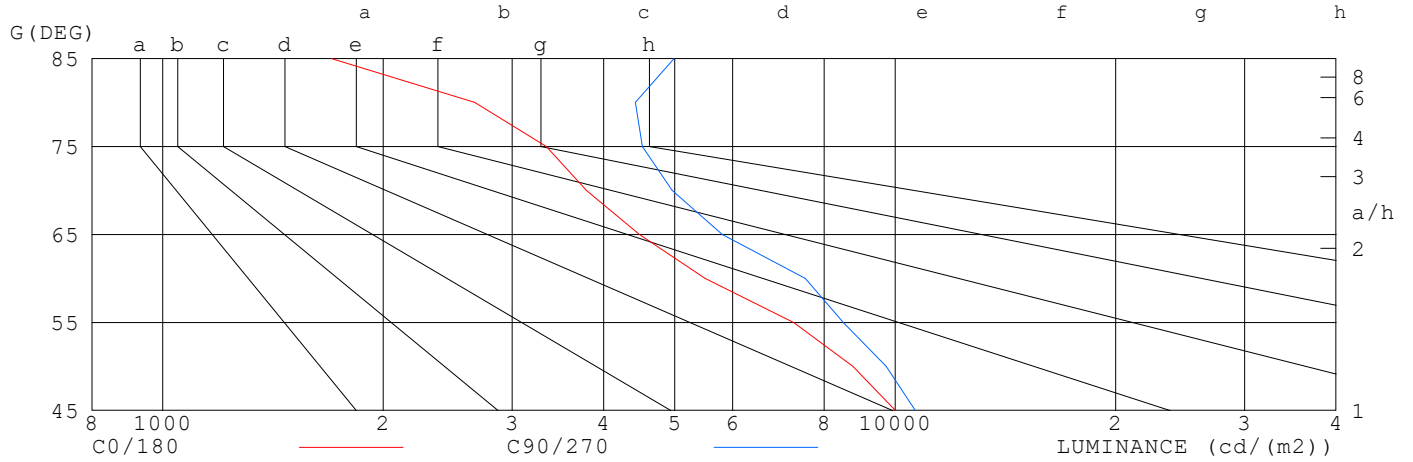
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		
Address:		
NAME: 1007-1-2-1-2	TYPE: .5W 3K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1120*50*90	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	1698	4991
80	2666	4418
75	3341	4519
70	3789	4961
65	4478	5809
60	5503	7543
55	7271	8495
50	8756	9727
45	10010	10657

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:9.500 m
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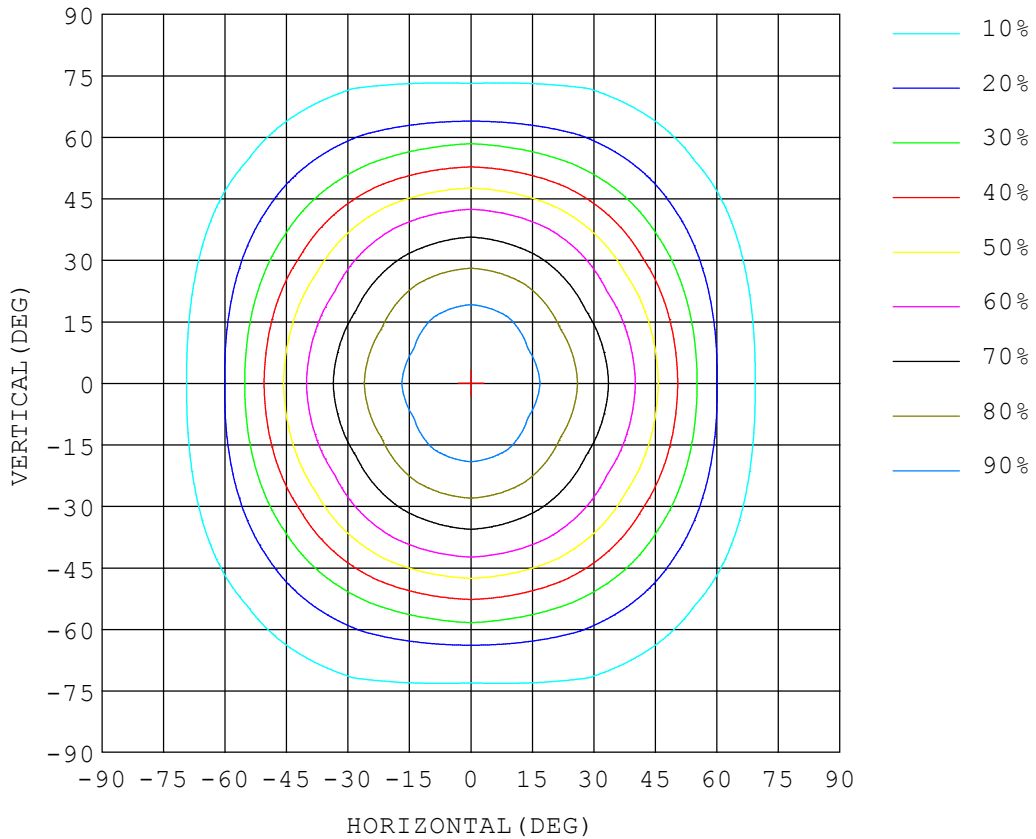


ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 1007-1-2-1-2	TYPE: .5W 3K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1120*50*90	SERIAL No.:

UNIT: cd



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:04-29-2023

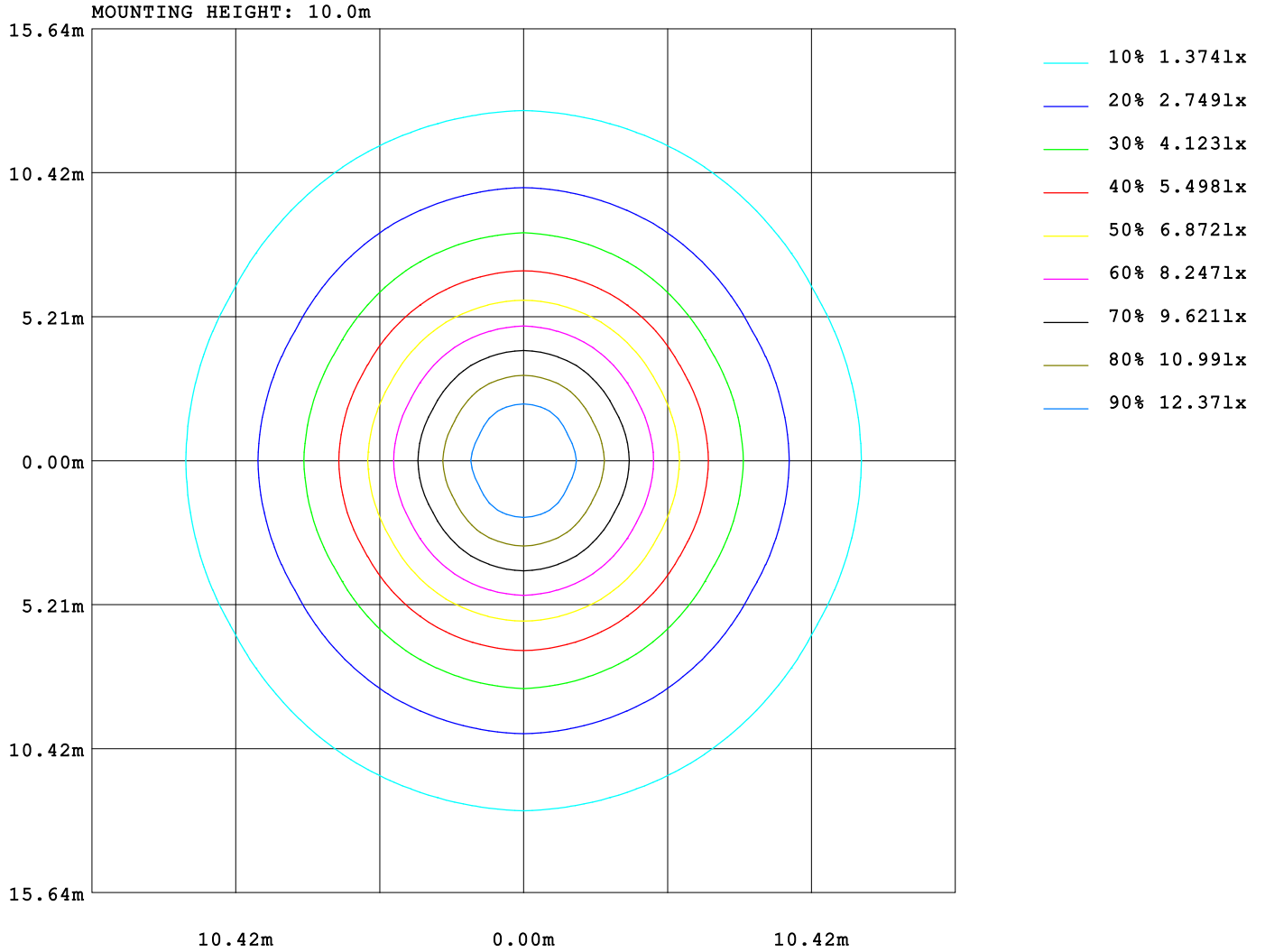
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.500 m
Remarks: 3000k



ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 1007-1-2-1-2	TYPE: .5W 3K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1120*50*90	SERIAL No.:



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:9.500 m
 Remarks: 3000k

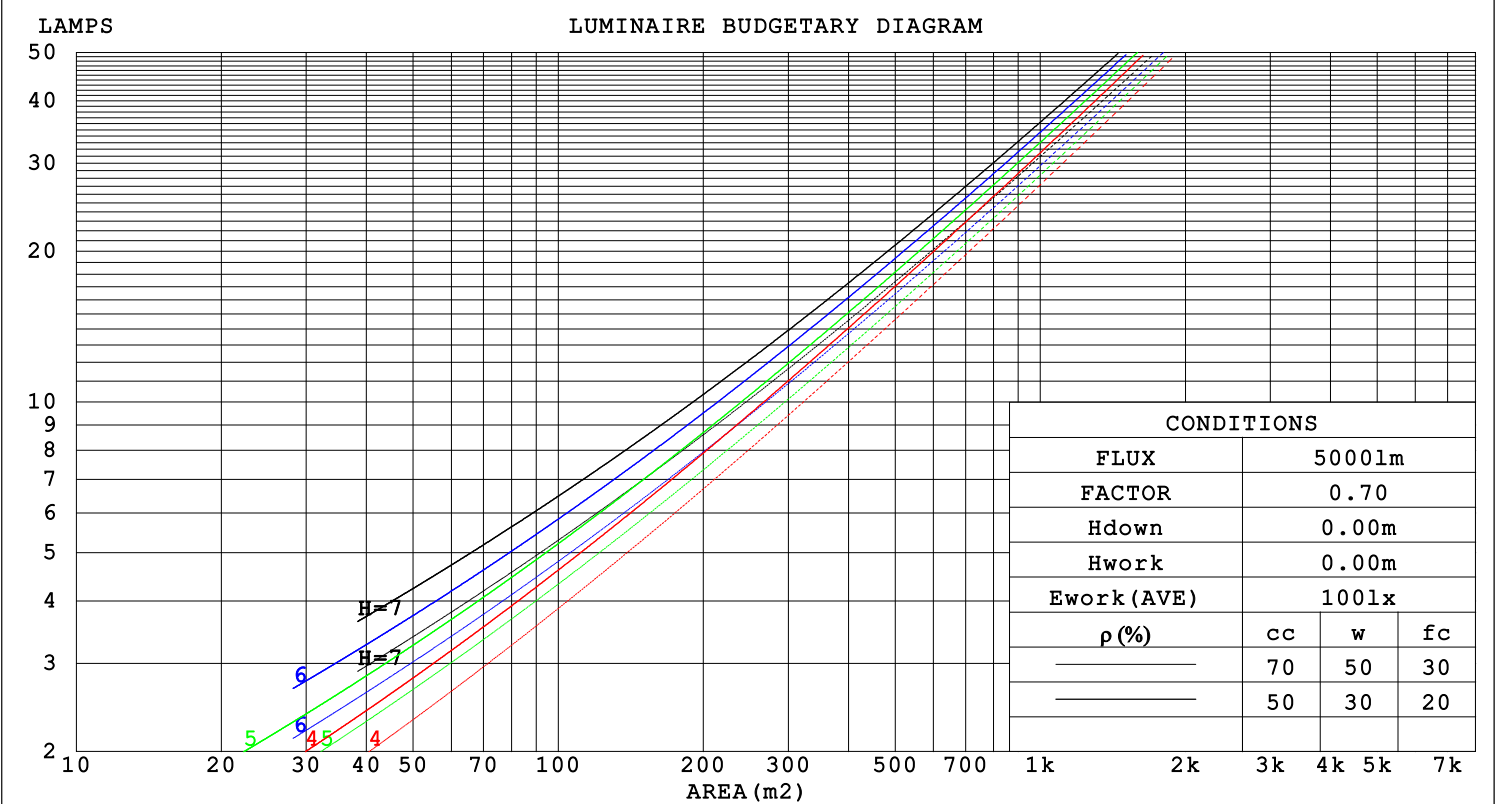


CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:															
Address:															
NAME: 1007-1-2-1-2						TYPE: .5W 3K CRI90						WEIGHT:			
SPECIFICATION:						DIMENSION: 1120*50*90						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						Coefficients of Utilization(CU)									
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.04	1.04	1.04	.00	.00	.00	.97
1.0	1.05	1.01	.98	1.03	.99	.96	.98	.95	.93	.94	.91	.89	.90	.88	.86	.84
2.0	.93	.87	.82	.91	.86	.81	.87	.83	.79	.84	.80	.77	.80	.77	.74	.72
3.0	.83	.76	.70	.81	.75	.69	.78	.72	.68	.75	.70	.66	.72	.68	.65	.62
4.0	.74	.66	.60	.73	.66	.60	.70	.64	.59	.68	.62	.58	.65	.61	.57	.55
5.0	.67	.59	.53	.66	.58	.52	.64	.57	.52	.61	.55	.51	.59	.54	.50	.48
6.0	.61	.53	.47	.60	.52	.46	.58	.51	.46	.56	.50	.45	.54	.49	.45	.43
7.0	.56	.47	.42	.55	.47	.41	.53	.46	.41	.51	.45	.40	.50	.44	.40	.38
8.0	.51	.43	.37	.50	.43	.37	.49	.42	.37	.47	.41	.36	.46	.40	.36	.34
9.0	.47	.39	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.43	.37	.33	.31
10.0	.43	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.30	.40	.34	.30	.28



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:9.500 m
 Remarks: 3000k



WEC AND CCEC

Report number:

MANUFACTURER:														
Address:														
NAME: 1007-1-2-1-2							TYPE: .5W 3K CRI90				WEIGHT:			
SPECIFICATION:							DIMENSION: 1120*50*90				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	.271	.154	.049	.263	.150	.048	.249	.143	.046	.235	.136	.044	.223	.129	.042	
2.0	.258	.141	.043	.251	.138	.043	.238	.132	.041	.226	.127	.040	.215	.122	.038	
3.0	.242	.129	.039	.236	.126	.038	.224	.122	.037	.214	.117	.036	.204	.113	.035	
4.0	.226	.117	.034	.220	.115	.034	.210	.112	.033	.201	.108	.033	.192	.104	.032	
5.0	.211	.107	.031	.206	.106	.031	.197	.103	.030	.189	.100	.030	.181	.097	.029	
6.0	.197	.099	.028	.193	.097	.028	.185	.095	.028	.177	.092	.027	.170	.090	.027	
7.0	.185	.091	.026	.181	.090	.026	.174	.088	.025	.167	.086	.025	.161	.083	.025	
8.0	.174	.085	.024	.170	.084	.024	.164	.082	.023	.158	.080	.023	.152	.078	.023	
9.0	.164	.079	.022	.161	.078	.022	.155	.077	.022	.149	.075	.021	.144	.073	.021	
10.0	.155	.074	.021	.152	.073	.020	.146	.072	.020	.141	.070	.020	.137	.069	.020	

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	.211	.211	.211	.181	.181	.181	.123	.123	.123	.071	.071	.071	.023	.023	.023	
1.0	.199	.177	.158	.170	.152	.136	.116	.105	.094	.067	.061	.055	.021	.020	.018	
2.0	.189	.153	.123	.162	.132	.107	.111	.091	.074	.064	.053	.044	.021	.017	.014	
3.0	.180	.135	.100	.155	.117	.086	.106	.081	.061	.061	.047	.036	.020	.015	.012	
4.0	.172	.122	.083	.148	.105	.072	.102	.073	.051	.059	.043	.030	.019	.014	.010	
5.0	.165	.111	.072	.142	.096	.062	.098	.067	.044	.057	.039	.026	.018	.013	.009	
6.0	.158	.103	.063	.136	.089	.055	.094	.062	.039	.054	.037	.023	.018	.012	.008	
7.0	.152	.096	.057	.130	.083	.049	.090	.058	.035	.052	.034	.021	.017	.011	.007	
8.0	.146	.090	.052	.125	.078	.045	.087	.055	.032	.050	.032	.019	.016	.011	.006	
9.0	.140	.085	.048	.121	.074	.042	.084	.052	.030	.049	.031	.018	.016	.010	.006	
10.0	.135	.081	.045	.116	.070	.039	.081	.049	.028	.047	.029	.017	.015	.010	.006	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:9.500 m
 Remarks: 3000k



Uncorrected UGR Table

Report number:

MANUFACTURER:										
Address:										
NAME: 1007-1-2-1-2					TYPE: .5W 3K CRI90			WEIGHT:		
SPECIFICATION:					DIMENSION: 1120*50*90			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	18.9	20.2	19.2	20.5	20.7	19.7	21.0	19.9	21.3	21.5
	3H	19.4	20.6	19.7	20.9	21.2	20.4	21.6	20.7	21.9	22.2
	4H	19.6	20.8	19.9	21.1	21.4	20.7	21.9	21.0	22.2	22.5
	6H	19.7	20.8	20.0	21.1	21.4	21.0	22.1	21.3	22.4	22.7
	8H	19.6	20.7	20.0	21.0	21.4	21.0	22.1	21.4	22.4	22.8
	12H	19.6	20.6	20.0	21.0	21.3	21.1	22.2	21.5	22.5	22.8
4H	2H	19.2	20.4	19.5	20.7	21.0	19.9	21.1	20.2	21.4	21.7
	3H	19.9	20.9	20.3	21.2	21.6	20.8	21.9	21.2	22.2	22.6
	4H	20.2	21.1	20.6	21.5	21.8	21.3	22.2	21.7	22.6	23.0
	6H	20.3	21.2	20.8	21.6	22.0	21.7	22.5	22.1	22.9	23.3
	8H	20.3	21.1	20.8	21.5	21.9	21.8	22.6	22.3	23.0	23.4
	12H	20.3	21.0	20.8	21.4	21.9	22.0	22.7	22.4	23.1	23.6
8H	4H	20.3	21.1	20.8	21.5	22.0	21.4	22.1	21.8	22.5	23.0
	6H	20.6	21.2	21.1	21.7	22.1	21.9	22.5	22.4	23.0	23.5
	8H	20.6	21.1	21.1	21.6	22.1	22.2	22.7	22.7	23.2	23.7
	12H	20.6	21.1	21.1	21.6	22.1	22.4	22.9	22.9	23.4	23.9
12H	4H	20.3	21.0	20.8	21.5	21.9	21.3	22.0	21.8	22.5	22.9
	6H	20.6	21.2	21.1	21.7	22.2	21.9	22.5	22.4	22.9	23.4
	8H	20.7	21.1	21.2	21.6	22.2	22.2	22.7	22.7	23.2	23.7

Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.6					+ 0.2 / - 0.3				
1.5H	+ 0.3 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 1.1 / - 1.4					+ 0.7 / - 0.8				

CIE Pub.117 Corrected 3016 lm Total Lamp Luminous Flux. (8log(F/F0) = 3.8)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:9.500 m
 Remarks: 3000k



UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:		
Address:		
NAME: 1007-1-2-1-2	TYPE: .5W 3K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1120*50*90	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	62	51	45	61	51	45	60	50	45	39
0.80	72	62	55	71	61	55	69	60	54	48
1.00	80	70	64	79	70	63	77	70	63	56
1.25	87	78	71	85	77	71	83	75	70	63
1.50	92	83	77	90	82	76	87	80	75	68
2.00	98	90	84	96	89	84	92	86	82	74
2.50	101	94	89	99	93	88	95	90	86	77
3.00	104	98	93	102	96	92	97	93	89	81
4.00	107	102	98	105	100	97	100	97	94	84
5.00	109	105	101	107	103	100	102	99	96	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

Test System:HOPOO HPG1800
 Temperature:25.3DEG
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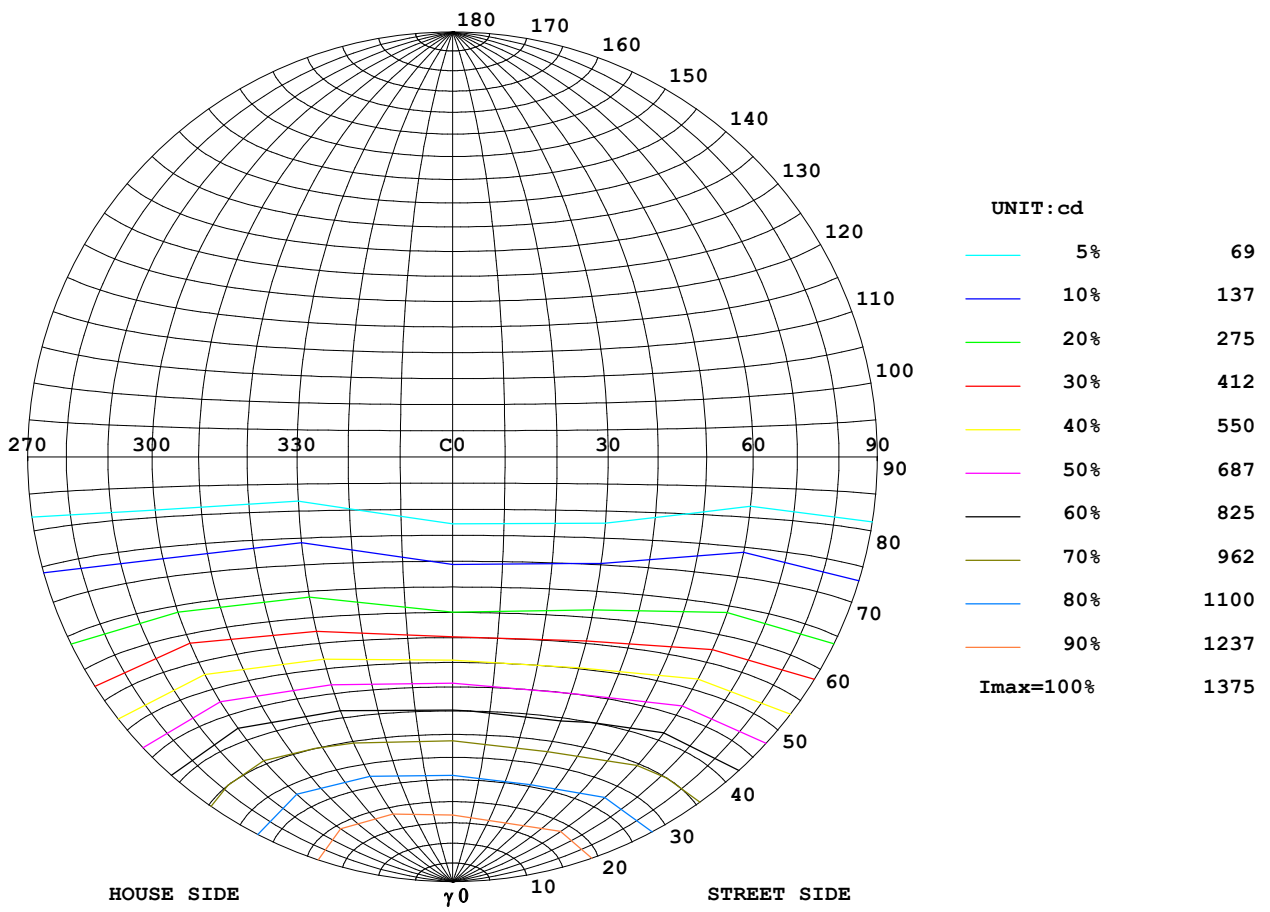
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ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 1007-1-2-1-2	TYPE: .5W 3K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1120*50*90	SERIAL No.:



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:04-29-2023

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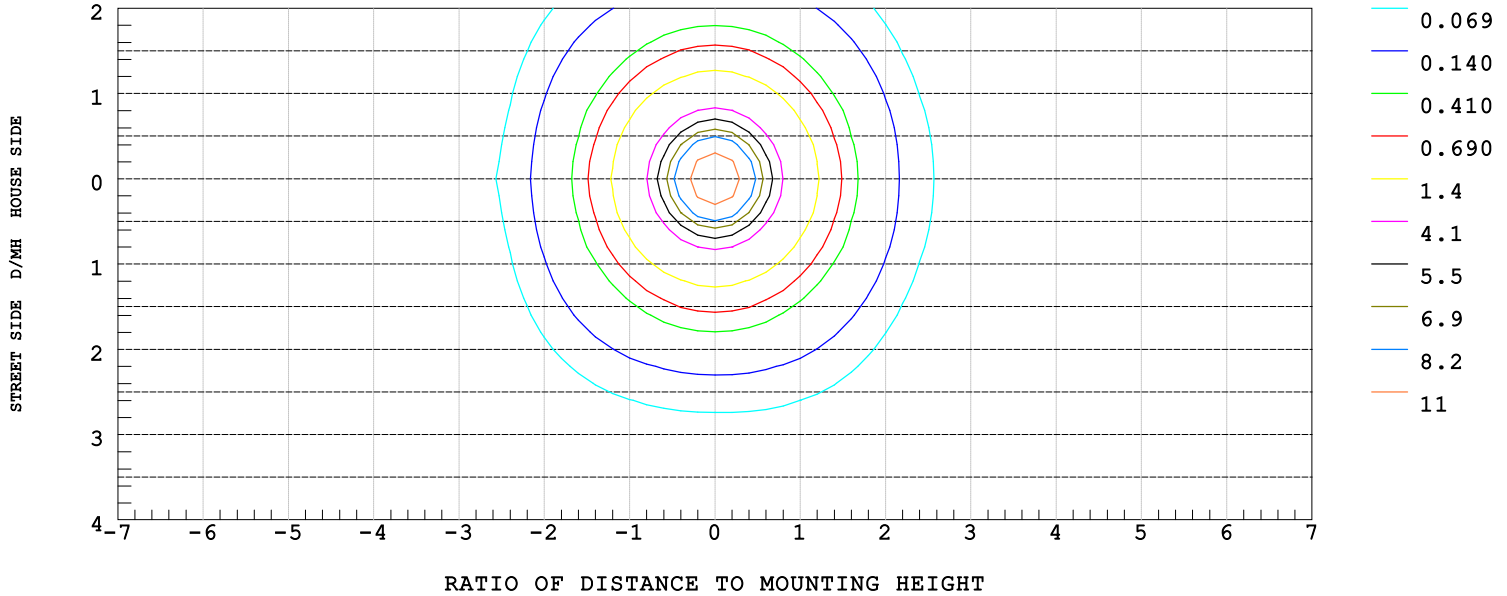


ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 1007-1-2-1-2	TYPE: .5W 3K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1120*50*90	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 13.75 lx



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:04-29-2023

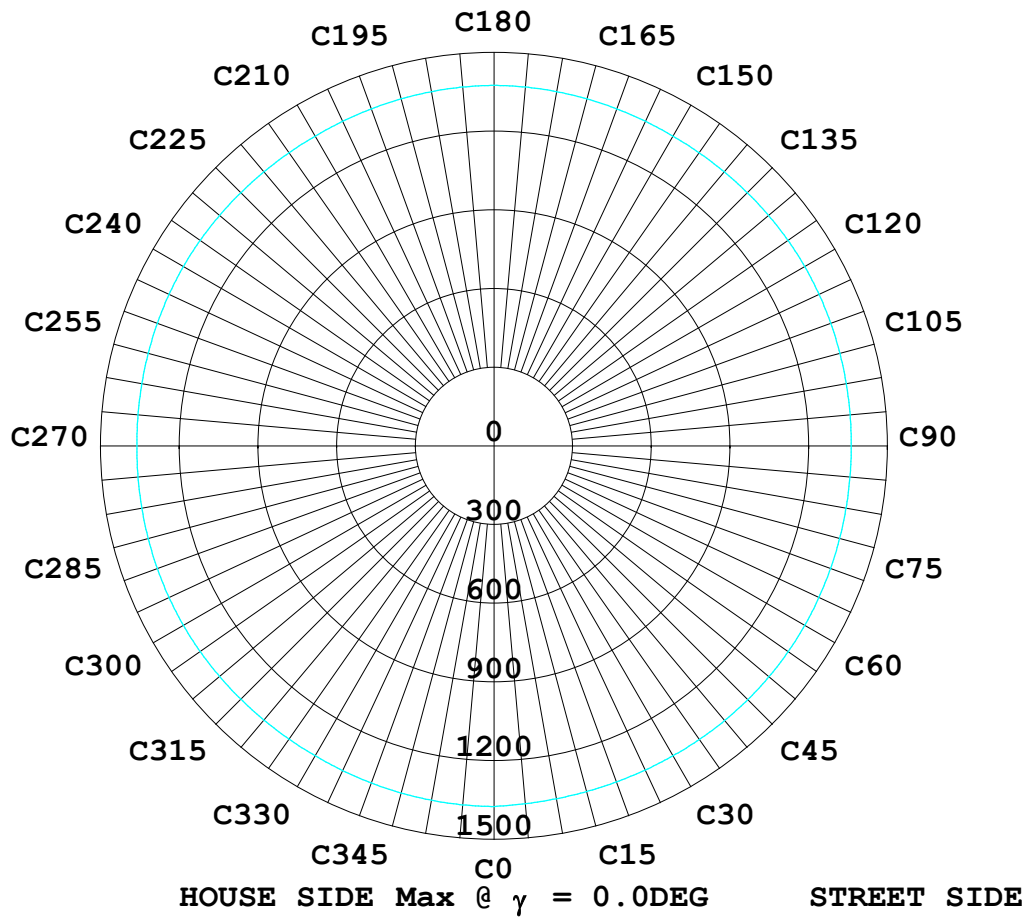
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ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 1007-1-2-1-2	TYPE: .5W 3K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1120*50*90	SERIAL No.:



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:9.500 m
 Remarks: 3000k



LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:		
Address:		
NAME: 1007-1-2-1-2	TYPE: .5W 3K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1120*50*90	SERIAL No.:

UNIT: cd

γ (DEG)	C (DEG)											
	0	30	60	90	120	150	180	210	240	270	300	330
0.0	1375	1364	1368	1362	1368	1364	1375	1364	1368	1362	1368	1364
5.0	1353	1342	1358	1356	1358	1342	1353	1342	1358	1356	1358	1342
10.0	1314	1306	1328	1330	1328	1306	1314	1306	1328	1330	1328	1306
15.0	1261	1253	1280	1287	1280	1253	1261	1253	1280	1287	1280	1253
20.0	1196	1187	1217	1227	1217	1187	1196	1187	1217	1227	1217	1187
25.0	1117	1106	1139	1152	1139	1106	1117	1106	1139	1152	1139	1106
30.0	1031	1017	1052	1066	1052	1017	1031	1017	1052	1066	1052	1017
35.0	935	918	955	973	955	918	935	918	955	973	955	918
40.0	828	810	861	890	861	810	828	810	861	890	861	810
45.0	708	688	735	754	735	688	708	688	735	754	735	688
50.0	563	553	599	625	599	553	563	553	599	625	599	553
55.0	417	423	468	487	468	423	417	423	468	487	468	423
60.0	275	299	346	377	346	299	275	299	346	377	346	299
65.0	189	216	254	245	254	216	189	216	254	245	254	216
70.0	130	139	184	170	184	139	130	139	184	170	184	139
75.0	86.4	88.6	128	117	128	88.6	86.4	88.6	128	117	128	88.6
80.0	46.2	52.3	82.1	76.7	82.1	52.3	46.2	52.3	82.1	76.7	82.1	52.3
85.0	14.8	18.1	45.8	43.5	45.8	18.1	14.8	18.1	45.8	43.5	45.8	18.1
90.0	10.9	6.67	20.7	19.4	20.7	6.67	10.9	6.67	20.7	19.4	20.7	6.67
95.0	10.6	6.58	18.2	14.2	18.2	6.58	10.6	6.58	18.2	14.2	18.2	6.58
100.0	10.6	7.49	16.6	13.3	16.6	7.49	10.6	7.49	16.6	13.3	16.6	7.49
105.0	11.0	7.22	13.7	12.7	13.7	7.22	11.0	7.22	13.7	12.7	13.7	7.22
110.0	11.4	7.12	14.7	12.3	14.7	7.12	11.4	7.12	14.7	12.3	14.7	7.12
115.0	12.1	8.39	14.3	12.0	14.3	8.39	12.1	8.39	14.3	12.0	14.3	8.39
120.0	12.8	9.11	13.8	11.9	13.8	9.11	12.8	9.11	13.8	11.9	13.8	9.11
125.0	13.6	9.92	13.5	11.5	13.5	9.92	13.6	9.92	13.5	11.5	13.5	9.92
130.0	14.4	11.0	13.5	11.4	13.5	11.0	14.4	11.0	13.5	11.4	13.5	11.0
135.0	15.2	12.1	13.8	11.6	13.8	12.1	15.2	12.1	13.8	11.6	13.8	12.1
140.0	16.0	13.0	14.5	12.2	14.5	13.0	16.0	13.0	14.5	12.2	14.5	13.0
145.0	16.9	14.1	15.3	13.1	15.3	14.1	16.9	14.1	15.3	13.1	15.3	14.1
150.0	17.6	15.2	16.2	14.2	16.2	15.2	17.6	15.2	16.2	14.2	16.2	15.2
155.0	18.5	16.2	17.1	15.1	17.1	16.2	18.5	16.2	17.1	15.1	17.1	16.2
160.0	19.1	17.2	17.8	16.2	17.8	17.2	19.1	17.2	17.8	16.2	17.8	17.2
165.0	19.7	17.7	18.5	17.0	18.5	17.7	19.7	17.7	18.5	17.0	18.5	17.7
170.0	20.2	18.5	19.2	17.8	19.2	18.5	20.2	18.5	19.2	17.8	19.2	18.5
175.0	20.3	18.9	19.5	18.5	19.5	18.9	20.3	18.9	19.5	18.5	19.5	18.9
180.0	20.4	19.3	19.6	19.1	19.6	19.3	20.4	19.3	19.6	19.1	19.6	19.3

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