

LUMINAIRE PHOTOMETRIC TEST REPORT

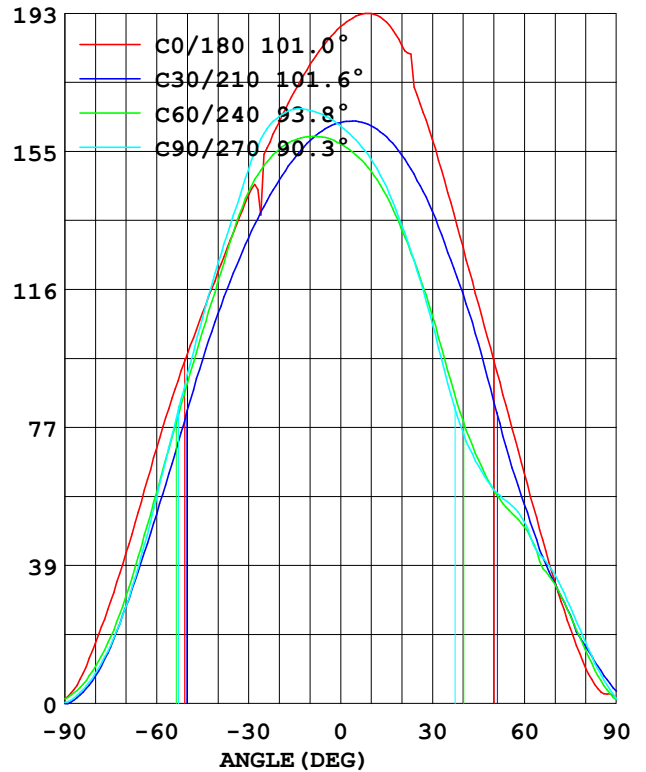
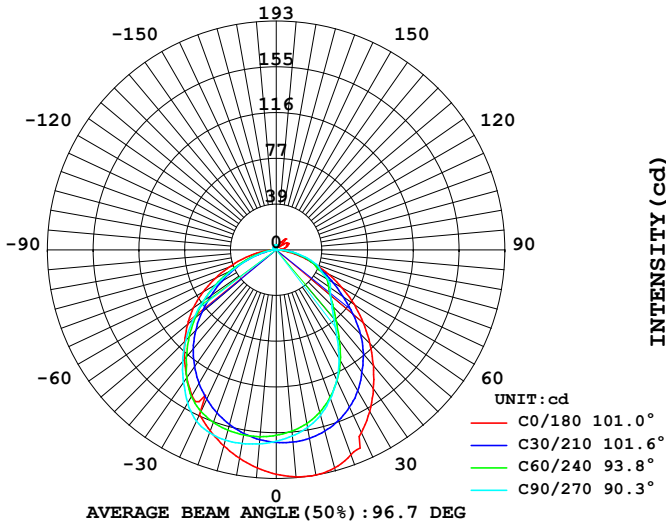
Report number:

MANUFACTURER:Lightrail			
Address:			
NAME: BL15.3K+Cove101 Profile		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 3000	DIMENSION:	SERIAL No. :

DATA OF LAMP		Imax (cd)	201.2	S/MH (C0/180)	1.13
MODEL	15W-3000K	EFFICIENCY (%)	100.0	S/MH (C90/270)	1.33
NOMINAL POWER (W)	15	TOTAL FLUX (lm)	442.6	Voltage (V)	23.77
RATED VOLTAGE (V)	24	EFFICIENCY (lm/W)	29.8	Current (A)	0.624
NOMINAL FLUX (lm)	442.6	η up (%)	3.0	Power (W)	14.84
LAMPS QUANTITY	1	η down (%)	97.0	Power Factor (PF)	1.000
TEST VOLTAGE (V)	23.8	Effective Flux (lm)	415.4	EET	0.388

LUMINOUS INTENSITY DISTRIBUTION

LUMINOUS INTENSITY DISTRIBUTION



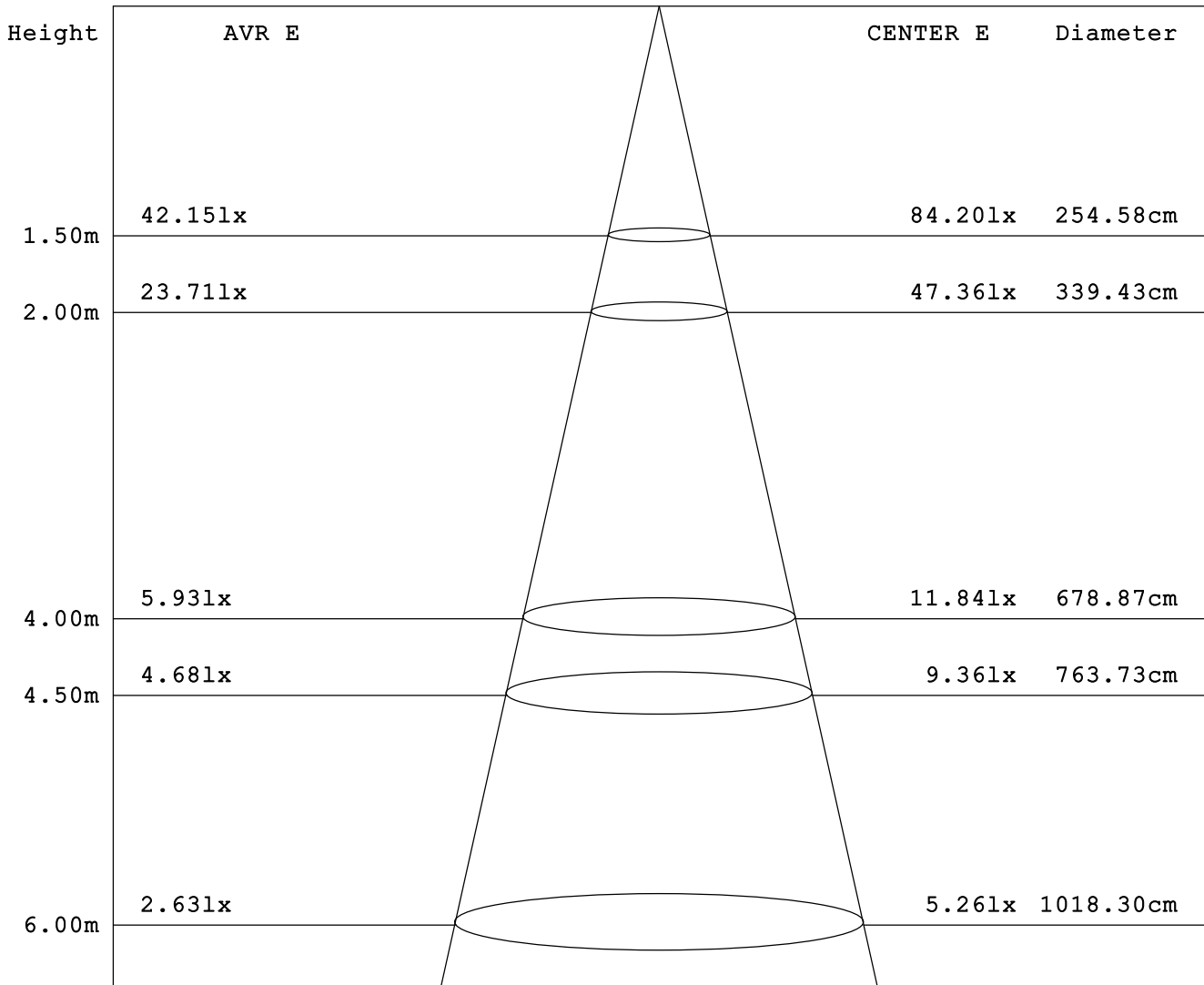
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2024-07-08

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.600 m
 Remarks:

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:Lightrail			
Address:			
NAME: BL15.3K+Cove101 Profile		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 3000	DIMENSION:	SERIAL No.:



Angle:80.6deg

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2024-07-08

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.600 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:Lightrail			
Address:			
NAME: BL15.3K+Cove101 Profile		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 3000	DIMENSION:	SERIAL No. :

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	184.7	159.6	164.3	193.6	192.4	158.2	157.7	184.9	0- 5	4.182	4.182
10.0	178.8	158.1	166.0	194.1	193.1	155.3	152.2	178.4	5- 10	12.38	16.56
15.0	171.3	155.1	166.3	192.6	190.7	150.3	144.6	169.4	10- 15	20.12	36.69
20.0	162.7	150.8	164.3	188.8	184.2	143.0	133.8	157.9	15- 20	27.02	63.72
25.0	153.6	144.8	159.5	182.7	170.4	134.0	121.0	145.0	20- 25	32.76	96.48
30.0	142.3	136.7	149.4	171.5	157.8	123.1	106.2	125.3	25- 30	36.65	133.1
35.0	131.6	126.1	136.6	159.3	143.0	109.6	89.42	114.1	30- 35	39.22	172.3
40.0	120.8	113.6	123.0	136.1	127.8	97.02	75.96	98.88	35- 40	39.65	212.0
45.0	109.3	100.1	107.8	127.9	111.8	84.50	66.55	84.85	40- 45	39.15	251.1
50.0	97.66	85.70	92.04	110.2	95.96	71.98	59.85	71.72	45- 50	37.30	288.4
55.0	85.55	70.87	75.09	91.36	80.54	61.63	56.14	60.70	50- 55	34.20	322.6
60.0	71.56	56.08	57.62	72.09	64.46	52.62	50.87	50.57	55- 60	30.26	352.9
65.0	56.36	41.81	41.42	53.60	48.56	41.42	41.64	39.90	60- 65	25.30	378.2
70.0	42.12	28.66	27.22	36.80	34.10	33.51	36.06	32.49	65- 70	19.82	398.0
75.0	28.61	17.22	16.24	22.60	21.03	24.67	27.05	23.95	70- 75	14.58	412.6
80.0	16.77	8.951	8.494	12.95	9.801	15.33	16.98	14.76	75- 80	9.385	422.0
85.0	6.795	3.397	3.049	6.751	3.179	7.775	8.145	7.840	80- 85	5.080	427.1
90.0	1.350	0.632	0.305	3.550	1.785	2.265	1.481	2.896	85- 90	2.057	429.1
95.0	0.523	0.370	0.653	3.506	3.136	0.893	0.348	1.720	90- 95	0.857	430.0
100.0	0.392	0.327	1.045	4.051	5.532	0.414	0.218	1.459	95-100	0.834	430.8
105.0	0.348	0.283	1.611	5.031	8.145	0.196	0.174	1.197	100-105	0.979	431.8
110.0	0.305	0.261	2.003	6.033	9.408	0.109	0.131	0.937	105-110	1.108	432.9
115.0	0.261	0.218	2.439	7.209	11.58	0.087	0.131	0.544	110-115	1.181	434.1
120.0	0.261	0.174	2.744	8.276	10.32	0.087	0.131	0.240	115-120	1.272	435.4
125.0	0.261	0.152	3.049	8.232	10.58	0.087	0.131	0.174	120-125	1.215	436.6
130.0	0.261	0.174	3.267	7.492	8.189	0.087	0.131	0.174	125-130	1.026	437.6
135.0	0.305	0.218	3.441	7.579	6.054	0.087	0.174	0.174	130-135	0.842	438.5
140.0	0.305	0.261	3.571	8.015	12.37	0.087	0.218	0.174	135-140	0.967	439.4
145.0	0.305	0.370	3.702	7.775	7.971	0.109	0.218	0.174	140-145	0.880	440.3
150.0	0.305	0.653	3.833	7.122	7.448	0.174	0.218	0.174	145-150	0.697	441.0
155.0	0.348	0.762	3.920	7.100	2.874	0.196	0.305	0.218	150-155	0.559	441.6
160.0	0.305	0.414	4.094	6.534	0.348	0.196	0.261	0.218	155-160	0.373	441.9
165.0	0.305	2.330	4.138	4.835	0.348	0.240	0.305	0.218	160-165	0.273	442.2
170.0	0.348	2.591	4.225	4.356	0.305	0.261	0.305	0.218	165-170	0.198	442.4
175.0	0.348	4.356	4.268	4.290	0.305	0.261	0.305	0.261	170-175	0.131	442.5
180.0	0.348	0.566	0.305	0.392	0.348	0.675	0.348	0.348	175-180	0.045	442.6
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2024-07-08

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.600 m
 Remarks:

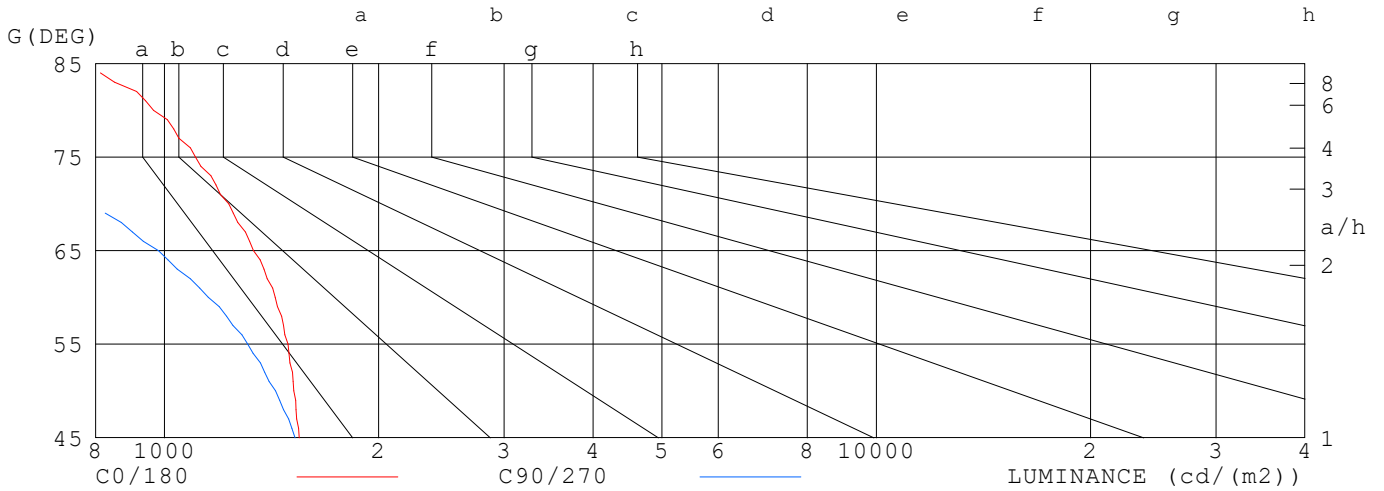
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:Lightrail			
Address:			
NAME: BL15.3K+Cove101 Profile		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 3000	DIMENSION:	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	780	350
80	966	489
75	1106	628
70	1232	796
65	1334	980
60	1431	1153
55	1492	1309
50	1519	1432
45	1546	1525

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2024-07-08

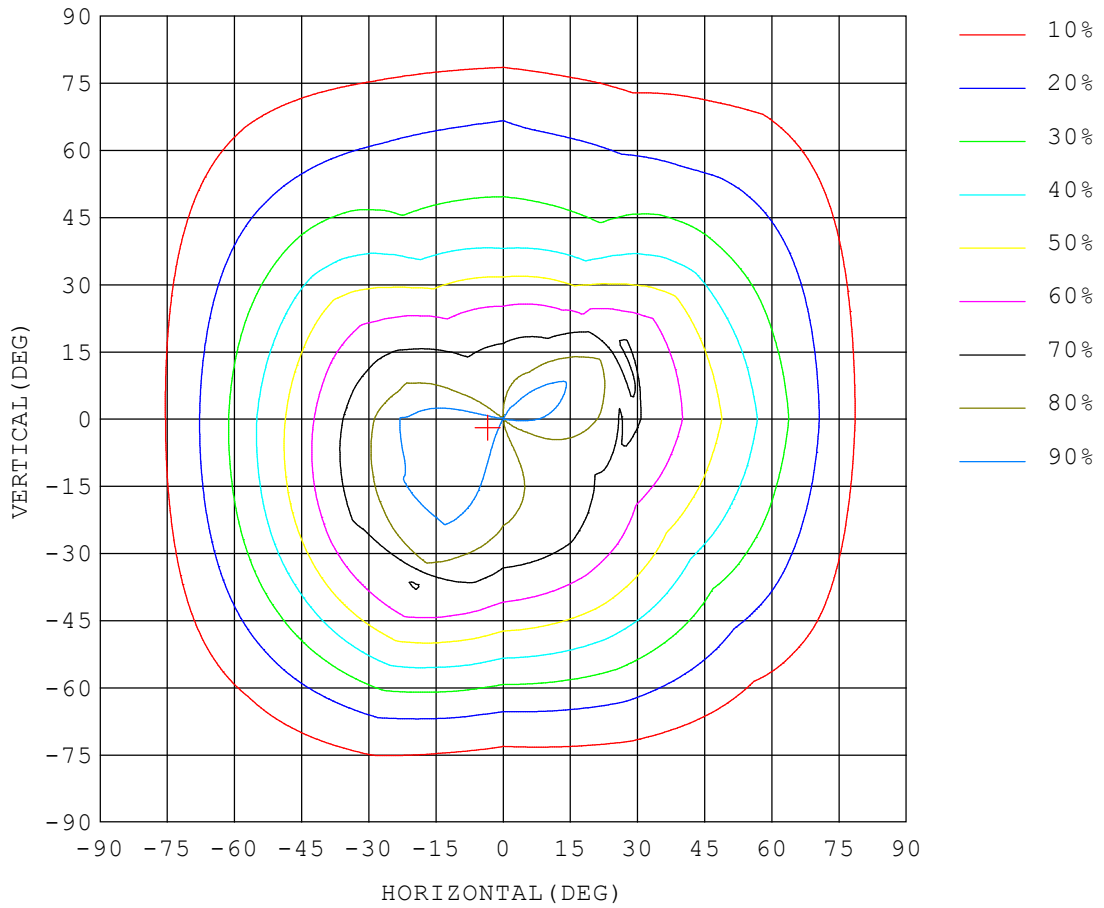
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.600 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:Lightrail			
Address:			
NAME: BL15.3K+Cove101 Profile		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 3000	DIMENSION:	SERIAL No. :

UNIT: cd



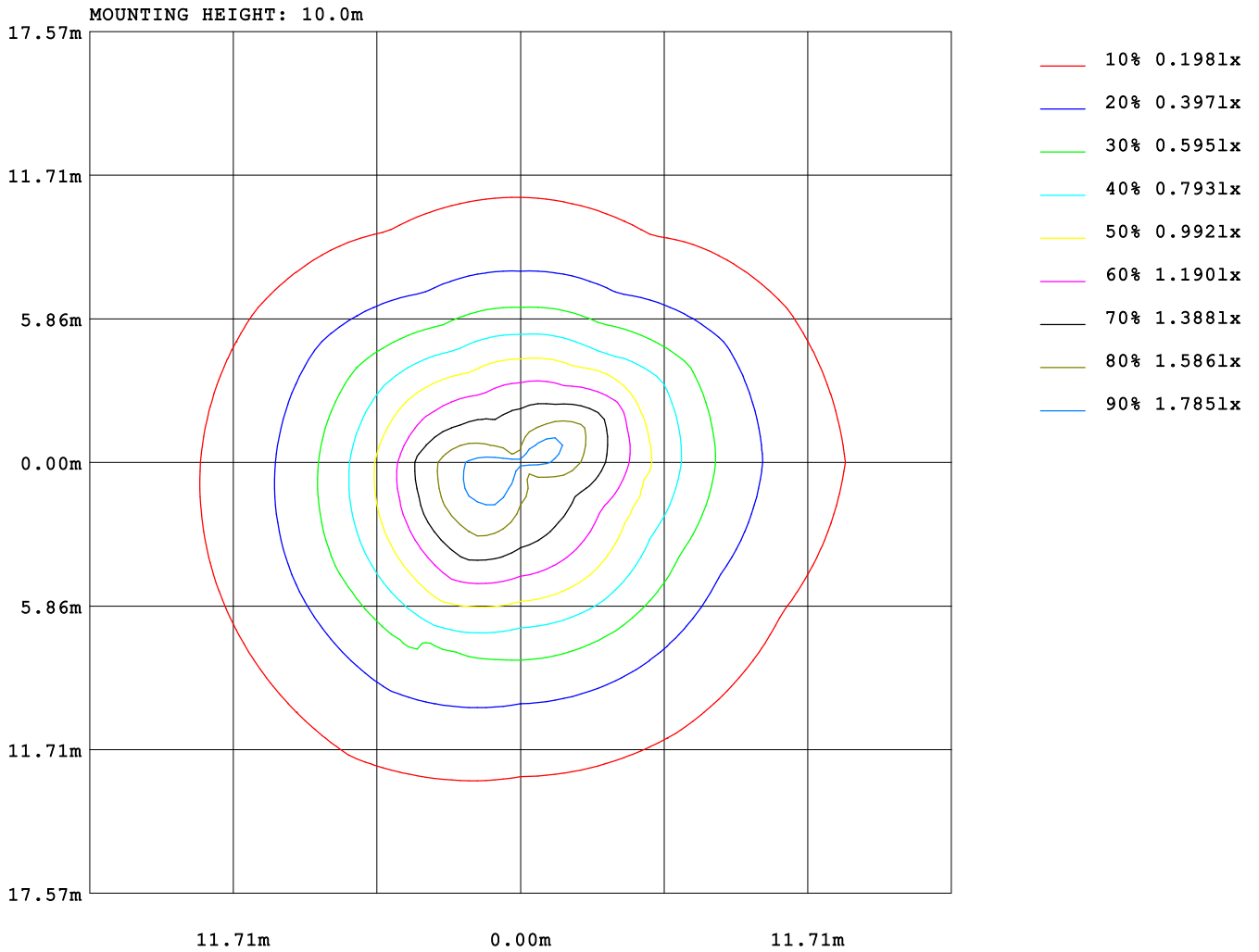
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2024-07-08

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.600 m
 Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:Lightrail			
Address:			
NAME: BL15.3K+Cove101 Profile		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 3000	DIMENSION:	SERIAL No. :



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2024-07-08

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.600 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:Lightrail																			
Address:																			
NAME: BL15.3K+Cove101 Profile										TYPE:					WEIGHT:				
SPECIFICATION:					CCT (K) : 3000					DIMENSION:					SERIAL No. :				

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm	Φ t	Φ a
	0.01	0.03	0.07	0.11	0.13	0.15	0.18	0.22	0.25	0.24	0.19	0.13	0.12	0.14	0.14	0.09	0.04	0.01	2.20	0.00	
90	0.01	0.03	0.07	0.11	0.13	0.15	0.18	0.22	0.25	0.24	0.19	0.13	0.12	0.14	0.14	0.09	0.04	0.01	2.20	0.00	
80	0.01	0.04	0.13	0.24	0.35	0.48	0.61	0.72	0.80	0.77	0.66	0.51	0.42	0.34	0.27	0.16	0.06	0.01	6.58	3.61	
70	0.01	0.06	0.20	0.40	0.62	0.83	1.01	1.17	1.27	1.24	1.09	0.89	0.76	0.62	0.43	0.24	0.09	0.01	10.9	10.2	
60	0.01	0.09	0.28	0.56	0.87	1.18	1.40	1.57	1.67	1.65	1.50	1.29	1.11	0.87	0.62	0.33	0.12	0.02	15.1	14.8	
50	0.01	0.11	0.37	0.73	1.17	1.55	1.73	1.90	2.02	2.01	1.84	1.67	1.52	1.17	0.78	0.43	0.15	0.02	19.2	19.0	
40	0.01	0.13	0.45	0.93	1.51	2.05	2.33	2.50	2.72	2.73	2.50	2.34	2.08	1.54	0.97	0.52	0.18	0.02	25.5	25.4	
30	0.01	0.16	0.53	1.11	1.87	2.65	3.12	3.36	3.61	3.69	3.49	3.24	2.73	1.91	1.17	0.60	0.21	0.02	33.5	33.4	
	0.02	0.17	0.59	1.27	2.16	3.10	3.84	4.15	4.27	4.50	4.57	3.97	3.13	2.18	1.34	0.67	0.23	0.03	40.2	40.1	
	0.02	0.18	0.63	1.37	2.35	3.44	4.44	5.00	4.88	5.39	5.16	4.19	3.27	2.32	1.45	0.72	0.24	0.03	45.1	45.0	
	0.01	0.18	0.64	1.41	2.43	3.60	4.77	5.63	5.75	4.93	4.67	4.01	3.19	2.29	1.44	0.72	0.23	0.03	45.9	45.8	
	0.01	0.17	0.61	1.37	2.39	3.56	4.68	5.49	5.45	4.86	4.37	3.69	2.93	2.11	1.32	0.65	0.21	0.02	43.9	43.8	
-30	0.01	0.15	0.55	1.25	2.22	3.31	4.34	5.14	5.07	4.68	4.20	3.45	2.61	1.83	1.14	0.57	0.19	0.02	40.7	40.6	
-40	0.01	0.13	0.46	1.06	1.90	2.89	3.74	4.27	4.29	4.05	3.66	3.02	2.25	1.49	0.92	0.46	0.15	0.02	34.8	34.6	
-50	0.01	0.10	0.36	0.83	1.50	2.31	3.09	3.46	3.40	3.21	2.91	2.42	1.79	1.16	0.68	0.35	0.12	0.02	27.7	27.4	
-60	0.01	0.07	0.25	0.57	1.05	1.64	2.19	2.41	2.37	2.24	2.06	1.73	1.27	0.82	0.46	0.23	0.09	0.01	19.5	19.0	
-70	0.01	0.05	0.15	0.34	0.62	0.97	1.27	1.37	1.33	1.26	1.18	1.01	0.75	0.48	0.26	0.13	0.05	0.01	11.2	10.2	
-80	0.01	0.03	0.08	0.17	0.30	0.46	0.57	0.59	0.55	0.52	0.50	0.44	0.34	0.21	0.11	0.06	0.03	0.01	4.98	1.83	
-90	0.01	0.02	0.05	0.08	0.12	0.17	0.19	0.17	0.13	0.11	0.12	0.12	0.09	0.05	0.02	0.01	0.01	0.00	1.48	0.00	
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90				
Φ t	0.20	1.85	6.37	13.8	23.6	34.4	43.5	49.1	49.8	48.1	44.7	38.1	30.4	21.5	13.5	6.95	2.38	0.30	443		
Φ a	0.00	0.79	5.46	12.9	22.8	33.6	42.7	48.4	49.1	47.3	43.9	37.3	29.6	20.7	12.7	6.14	1.48	0.00		415	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2024-07-08

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.600 m
 Remarks:

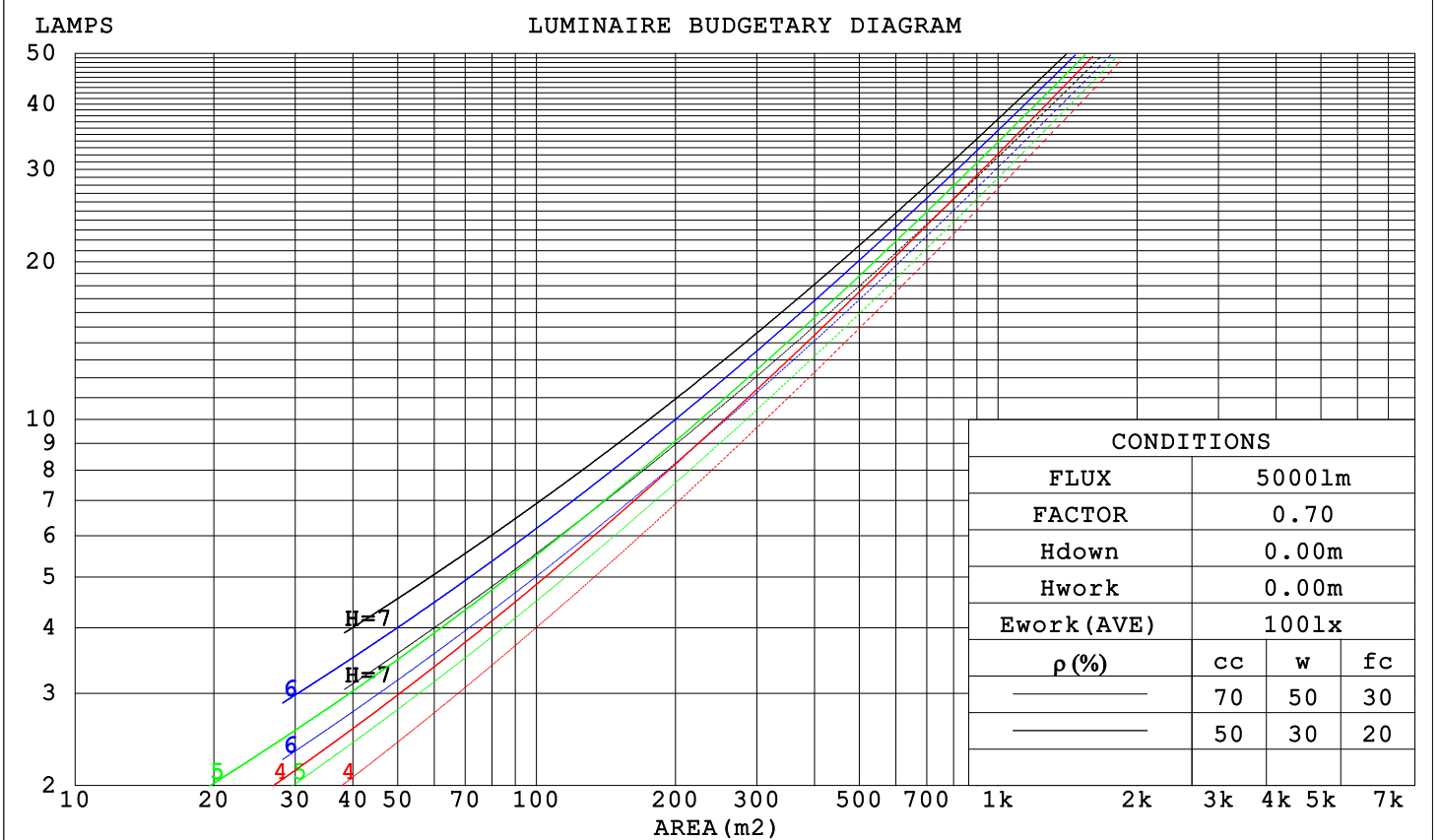
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:Lightrail															
Address:															
NAME: BL15.3K+Cove101 Profile										TYPE:			WEIGHT:		
SPECIFICATION:					CCT (K) : 3000					DIMENSION:			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	1.09	1.09	1.09	1.04	1.04	1.04	.99	.99	.99	.97
1.0	1.04	1.00	.96	1.02	.98	.95	.97	.94	.91	.92	.90	.88	.88	.86	.85	.82
2.0	.91	.85	.79	.89	.83	.78	.85	.80	.76	.82	.77	.74	.78	.75	.72	.70
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.64	.73	.67	.63	.70	.65	.62	.59
4.0	.72	.64	.57	.70	.63	.57	.68	.61	.55	.65	.59	.54	.62	.57	.53	.51
5.0	.65	.56	.50	.63	.55	.49	.61	.54	.48	.59	.52	.48	.56	.51	.47	.45
6.0	.58	.50	.44	.57	.49	.43	.55	.48	.43	.53	.47	.42	.51	.46	.41	.39
7.0	.53	.45	.39	.52	.44	.38	.50	.43	.38	.49	.42	.37	.47	.41	.37	.35
8.0	.49	.40	.35	.48	.40	.34	.46	.39	.34	.45	.38	.34	.43	.38	.33	.31
9.0	.45	.37	.31	.44	.36	.31	.43	.36	.31	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.34	.28	.41	.33	.28	.39	.33	.28	.38	.32	.28	.37	.32	.28	.26



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2024-07-08

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.600 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER:Lightrail															
Address:															
NAME: BL15.3K+Cove101 Profile										TYPE:			WEIGHT:		
SPECIFICATION:					CCT (K) : 3000					DIMENSION:			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	.291	.166	.052	.283	.162	.051	.269	.154	.049	.255	.147	.047	.242	.140	.045	
2.0	.275	.151	.046	.268	.148	.046	.255	.142	.044	.243	.136	.043	.232	.131	.041	
3.0	.256	.136	.041	.250	.134	.040	.238	.129	.039	.227	.125	.038	.217	.120	.037	
4.0	.237	.123	.036	.232	.121	.036	.221	.117	.035	.212	.114	.034	.203	.110	.034	
5.0	.220	.112	.033	.215	.111	.032	.206	.107	.032	.198	.104	.031	.189	.101	.030	
6.0	.205	.103	.029	.201	.101	.029	.192	.099	.029	.185	.096	.028	.177	.093	.028	
7.0	.192	.095	.027	.188	.093	.027	.180	.091	.026	.173	.089	.026	.166	.086	.025	
8.0	.179	.088	.025	.176	.087	.024	.169	.084	.024	.163	.082	.024	.157	.080	.023	
9.0	.168	.082	.023	.165	.081	.023	.159	.079	.022	.153	.077	.022	.148	.075	.022	
10.0	.159	.076	.021	.156	.075	.021	.150	.074	.021	.145	.072	.020	.140	.070	.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	.214	.214	.214	.183	.183	.183	.125	.125	.125	.072	.072	.072	.023	.023	.023	
1.0	.202	.180	.159	.173	.154	.137	.118	.106	.095	.068	.061	.055	.022	.020	.018	
2.0	.194	.155	.123	.166	.134	.107	.114	.093	.074	.066	.054	.044	.021	.017	.014	
3.0	.185	.138	.100	.159	.119	.087	.109	.083	.061	.063	.048	.036	.020	.016	.012	
4.0	.178	.124	.084	.152	.108	.073	.105	.075	.051	.061	.044	.030	.020	.014	.010	
5.0	.170	.114	.072	.146	.099	.063	.101	.069	.045	.058	.040	.026	.019	.013	.009	
6.0	.163	.106	.064	.140	.091	.056	.097	.064	.040	.056	.038	.024	.018	.012	.008	
7.0	.157	.099	.058	.135	.086	.051	.093	.060	.036	.054	.035	.021	.017	.012	.007	
8.0	.150	.093	.053	.129	.081	.047	.090	.057	.033	.052	.033	.020	.017	.011	.007	
9.0	.144	.088	.050	.124	.076	.043	.086	.054	.031	.050	.032	.018	.016	.010	.006	
10.0	.139	.084	.047	.120	.073	.041	.083	.051	.029	.048	.030	.017	.016	.010	.006	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2024-07-08

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.600 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR Table

Report number:

MANUFACTURER:Lightrail										
Address:										
NAME: BL15.3K+Cove101 Profile					TYPE:			WEIGHT:		
SPECIFICATION:		CCT (K): 3000			DIMENSION:			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	13.5	14.9	13.8	15.2	15.5	13.4	14.8	13.7	15.1	15.3
3H	14.9	16.2	15.2	16.5	16.8	14.3	15.6	14.6	15.9	16.2
4H	15.4	16.7	15.8	17.0	17.3	14.5	15.8	14.9	16.1	16.4
6H	15.8	17.0	16.2	17.3	17.6	14.7	15.8	15.0	16.2	16.5
8H	15.9	17.0	16.3	17.4	17.7	14.7	15.8	15.1	16.1	16.5
12H	16.0	17.0	16.4	17.4	17.8	14.7	15.8	15.1	16.1	16.5
4H 2H	13.9	15.1	14.2	15.4	15.7	13.8	15.0	14.1	15.3	15.6
3H	15.3	16.4	15.7	16.7	17.1	14.9	15.9	15.2	16.3	16.6
4H	15.9	16.9	16.3	17.2	17.6	15.2	16.2	15.6	16.6	17.0
6H	16.3	17.2	16.8	17.6	18.0	15.4	16.3	15.9	16.7	17.1
8H	16.5	17.3	17.0	17.7	18.2	15.5	16.3	15.9	16.7	17.2
12H	16.6	17.3	17.1	17.8	18.2	15.5	16.2	16.0	16.7	17.1
8H 4H	15.9	16.7	16.4	17.2	17.6	15.3	16.1	15.8	16.5	17.0
6H	16.4	17.1	16.9	17.6	18.1	15.6	16.3	16.1	16.8	17.3
8H	16.6	17.2	17.1	17.7	18.2	15.8	16.3	16.3	16.8	17.3
12H	16.8	17.3	17.3	17.8	18.3	15.8	16.3	16.3	16.8	17.4
12H 4H	15.9	16.6	16.4	17.1	17.6	15.3	16.0	15.8	16.5	16.9
6H	16.4	17.0	16.9	17.5	18.0	15.6	16.2	16.1	16.7	17.2
8H	16.6	17.1	17.2	17.6	18.2	15.8	16.3	16.3	16.8	17.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.3 / - 0.3				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.4				
2.0H	+ 0.6 / - 0.8					+ 0.5 / - 0.5				

CIE Pub.117 Corrected 442.6 lm Total Lamp Luminous Flux. (8log(F/F0) = -2.8)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2024-07-08

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.600 m
 Remarks:

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:Lightrail			
Address:			
NAME: BL15.3K+Cove101 Profile		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 3000	DIMENSION:	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) $k(RI) \times RCR = 5$										
$k = 0.60$	59	48	41	58	48	41	57	47	41	35	
0.80	69	58	51	68	58	51	66	57	50	44	
1.00	77	67	60	76	66	60	74	67	59	52	
1.25	84	74	68	83	74	67	80	72	66	59	
1.50	89	80	73	87	79	72	84	77	71	64	
2.00	96	88	81	94	86	80	90	84	79	71	
2.50	99	92	86	97	90	85	93	87	83	74	
3.00	102	96	91	100	94	89	96	91	87	78	
4.00	106	101	96	104	99	95	99	95	92	82	
5.00	109	104	100	106	102	98	101	98	95	85	
ROOM INDEX	UF(total)									Direct	
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 1.25			

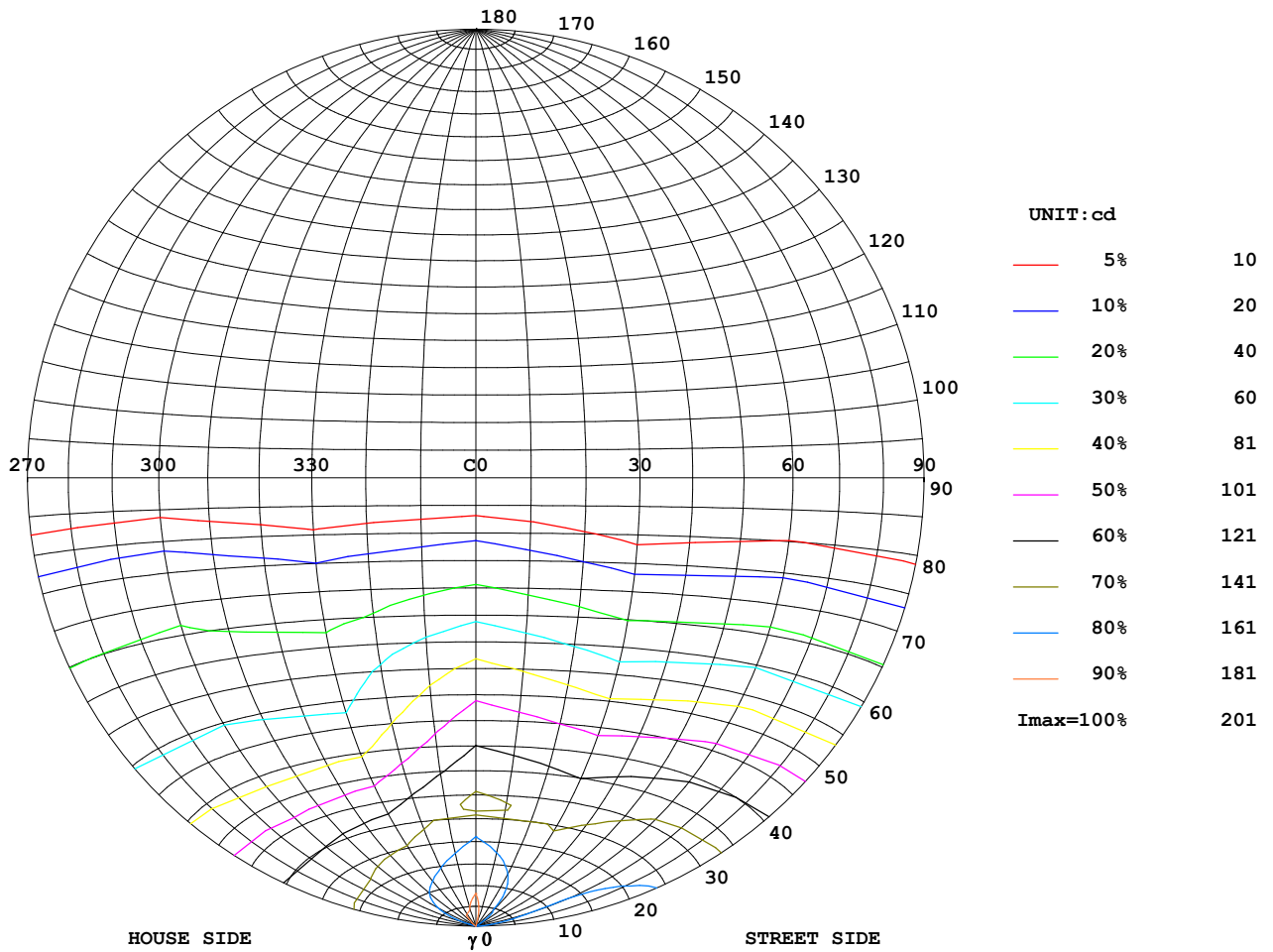
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2024-07-08

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.600 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:Lightrail			
Address:			
NAME: BL15.3K+Cove101 Profile		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 3000	DIMENSION:	SERIAL No. :



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2024-07-08

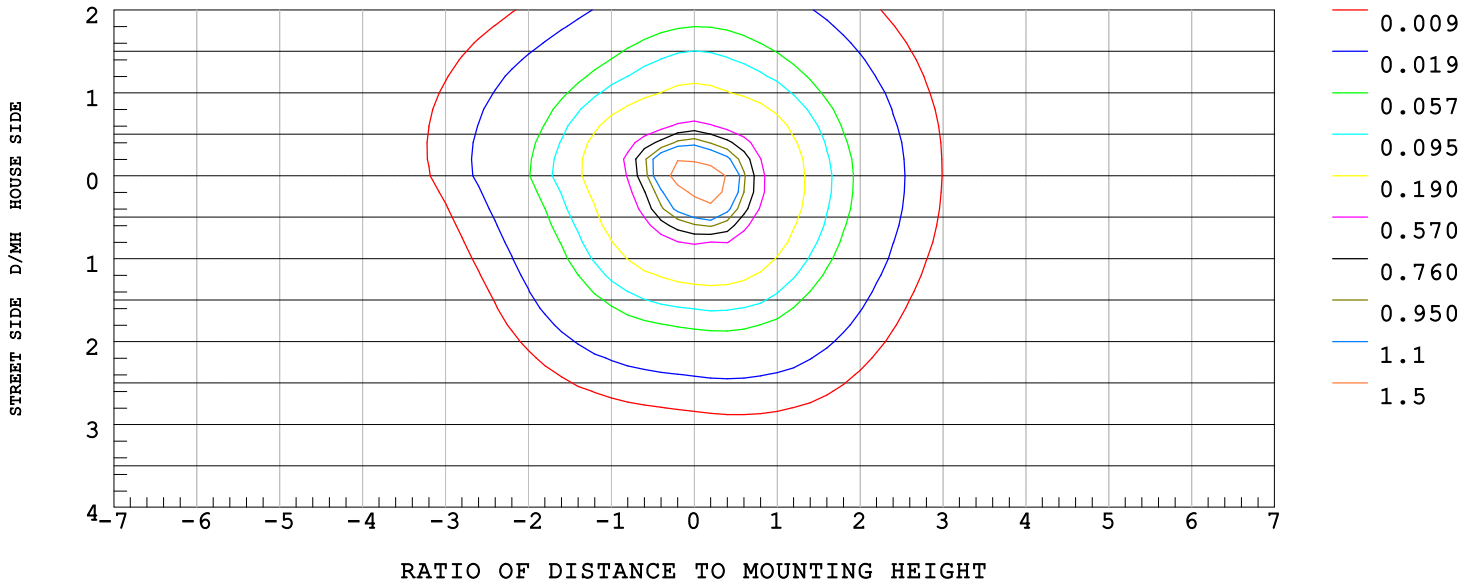
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.600 m
 Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:Lightrail			
Address:			
NAME: BL15.3K+Cove101 Profile		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 3000	DIMENSION:	SERIAL No. :

ILLUMINANCE AT MH=10 m, Enadir = 1.89 lx



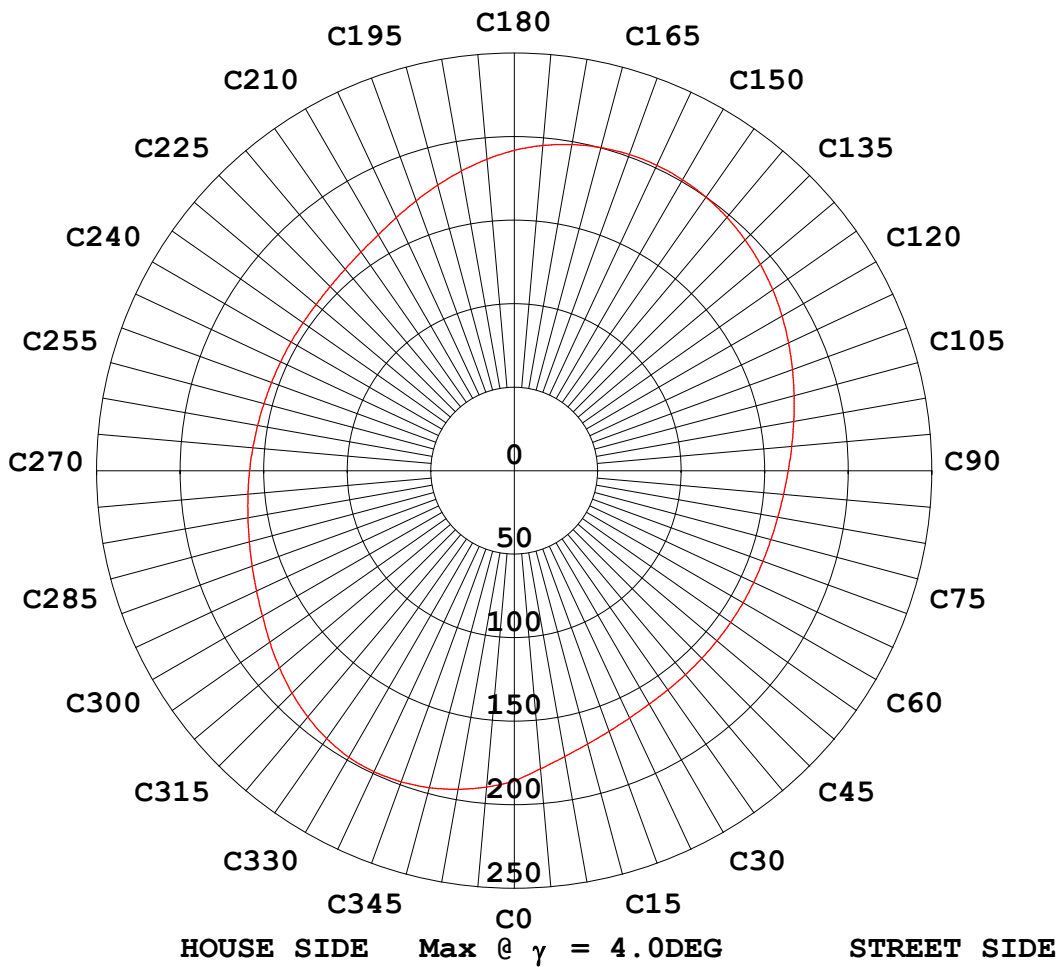
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2024-07-08

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.600 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:Lightrail			
Address:			
NAME: BL15.3K+Cove101 Profile		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 3000	DIMENSION:	SERIAL No. :



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2024-07-08

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.600 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: Lightrail			
Address:			
NAME: BL15.3K+Cove101 Profile		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 3000	DIMENSION:	SERIAL No. :

UNIT: cd

γ (DEG)	C (DEG)											
	0	30	60	90	120	150	180	210	240	270	300	330
0.0	189	163	157	162	182	200	189	163	157	162	182	200
5.0	185	161	158	164	186	201	192	163	154	158	173	197
10.0	179	158	159	166	189	200	193	162	149	152	165	192
15.0	171	153	158	166	190	196	191	159	142	145	155	184
20.0	163	147	155	164	188	189	184	154	133	134	142	174
25.0	154	139	151	160	184	182	170	146	122	121	129	162
30.0	142	130	143	149	176	167	158	138	109	106	112	138
35.0	132	120	132	137	164	155	143	126	93.0	89.4	94.4	134
40.0	121	109	118	123	132	140	128	115	79.2	75.9	78.3	119
45.0	109	96.0	104	108	132	124	112	101	68.2	66.5	65.9	104
50.0	97.6	82.0	89.3	92.0	114	106	95.9	84.3	59.5	59.8	56.8	86.5
55.0	85.5	67.1	74.6	75.0	95.7	86.9	80.5	69.0	54.1	56.1	51.0	70.3
60.0	71.5	52.9	59.1	57.6	76.0	68.1	64.4	55.8	49.4	50.8	44.8	56.2
65.0	56.3	39.8	43.8	41.4	56.1	51.0	48.5	42.9	39.8	41.6	34.4	45.3
70.0	42.1	27.1	30.1	27.2	38.8	34.7	34.1	33.6	33.3	36.0	28.1	36.8
75.0	28.6	15.8	18.6	16.2	24.7	20.4	21.0	24.7	24.5	27.0	20.1	27.7
80.0	16.7	7.66	10.2	8.49	14.5	11.3	9.80	15.8	14.7	16.9	11.4	18.1
85.0	6.79	2.35	4.44	3.04	7.92	5.57	3.17	9.14	6.40	8.14	4.13	11.5
90.0	1.35	0.00	1.26	0.30	3.57	3.52	1.78	3.44	1.08	1.48	0.00	5.79
95.0	0.52	0.00	0.74	0.65	3.09	3.92	3.13	1.39	0.39	0.35	0.00	3.44
100.0	0.39	0.00	0.65	1.04	3.39	4.70	5.53	0.78	0.04	0.22	0.00	2.91
105.0	0.35	0.00	0.57	1.61	3.78	6.27	8.14	0.39	0.00	0.17	0.00	2.39
110.0	0.30	0.00	0.52	2.00	4.31	7.75	9.40	0.22	0.00	0.13	0.00	1.87
115.0	0.26	0.00	0.44	2.43	4.83	9.58	11.5	0.17	0.00	0.13	0.00	1.08
120.0	0.26	0.00	0.35	2.74	5.35	11.1	10.3	0.17	0.00	0.13	0.00	0.48
125.0	0.26	0.00	0.30	3.04	6.01	10.4	10.5	0.17	0.00	0.13	0.00	0.35
130.0	0.26	0.00	0.35	3.26	6.62	8.36	8.18	0.17	0.00	0.13	0.00	0.35
135.0	0.30	0.04	0.39	3.44	7.36	7.79	6.05	0.17	0.00	0.17	0.00	0.35
140.0	0.30	0.09	0.44	3.57	7.92	8.10	12.3	0.17	0.00	0.22	0.04	0.30
145.0	0.30	0.13	0.61	3.70	7.05	8.49	7.97	0.17	0.04	0.22	0.09	0.26
150.0	0.30	0.13	1.17	3.83	5.31	8.92	7.44	0.22	0.13	0.22	0.13	0.22
155.0	0.35	0.22	1.30	3.92	4.87	9.32	2.87	0.26	0.13	0.30	0.17	0.26
160.0	0.30	0.30	0.52	4.09	4.39	8.66	0.35	0.26	0.13	0.26	0.17	0.26
165.0	0.30	0.39	4.26	4.13	4.35	5.31	0.35	0.26	0.22	0.30	0.17	0.26
170.0	0.35	0.74	4.44	4.22	4.35	4.35	0.30	0.30	0.22	0.30	0.17	0.26
175.0	0.35	4.35	4.35	4.26	4.39	4.18	0.30	0.30	0.22	0.30	0.22	0.30
180.0	0.35	0.61	0.52	0.30	0.52	0.26	0.35	1.00	0.35	0.35	0.30	0.39

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2024-07-08

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.600 m
 Remarks: