

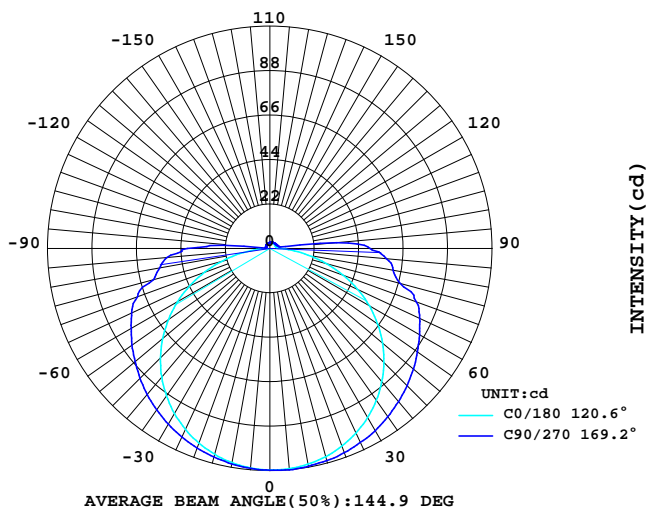
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

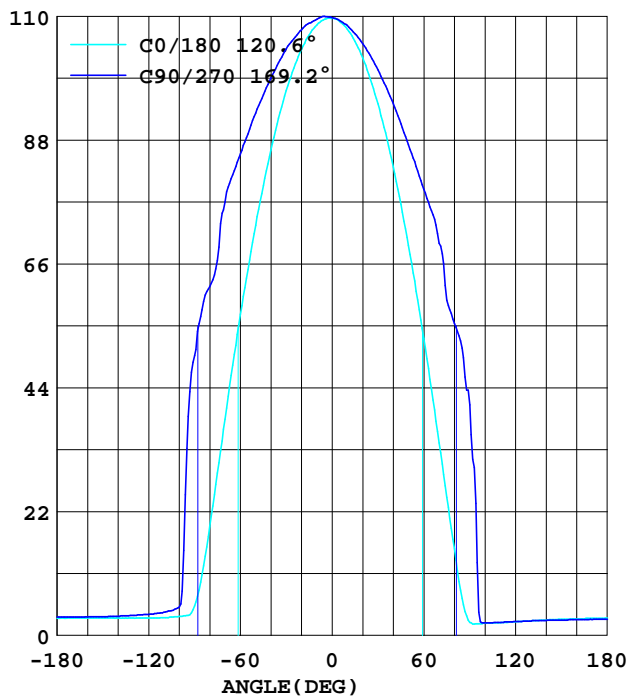
MANUFACTURER:			
Address:			
NAME: COB 320D 24V 10W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/320D	CCT(K): 3000	DIMENSION: 0.5M*0.008M	SERIAL No.: 20230107002

DATA OF LAMP		Imax(cd)	110.0	S/MH(C0/180)	1.31
MODEL	COB	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.43
NOMINAL POWER(W)	5	TOTAL FLUX(lm)	469.53	Voltage(V)	23.99
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	91.0	Current(A)	0.214
NOMINAL FLUX(lm)	469.5	h up(%)	6.4	Power(W)	5.160
LAMPS QUANTITY	1	h down(%)	93.6	Power Factor(PF)	1.000
TEST VOLTAGE(V)	24.0	Effective Flux(lm)	450.3	EEL	0.127

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.800 m
 Remarks:

Color Temperature Data List

Report number:

MANUFACTURER:			
Address:			
NAME: COB 320D 24V 10W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/320D	CCT(K): 3000	DIMENSION: 0.5M*0.008M	SERIAL No.: 20230107002

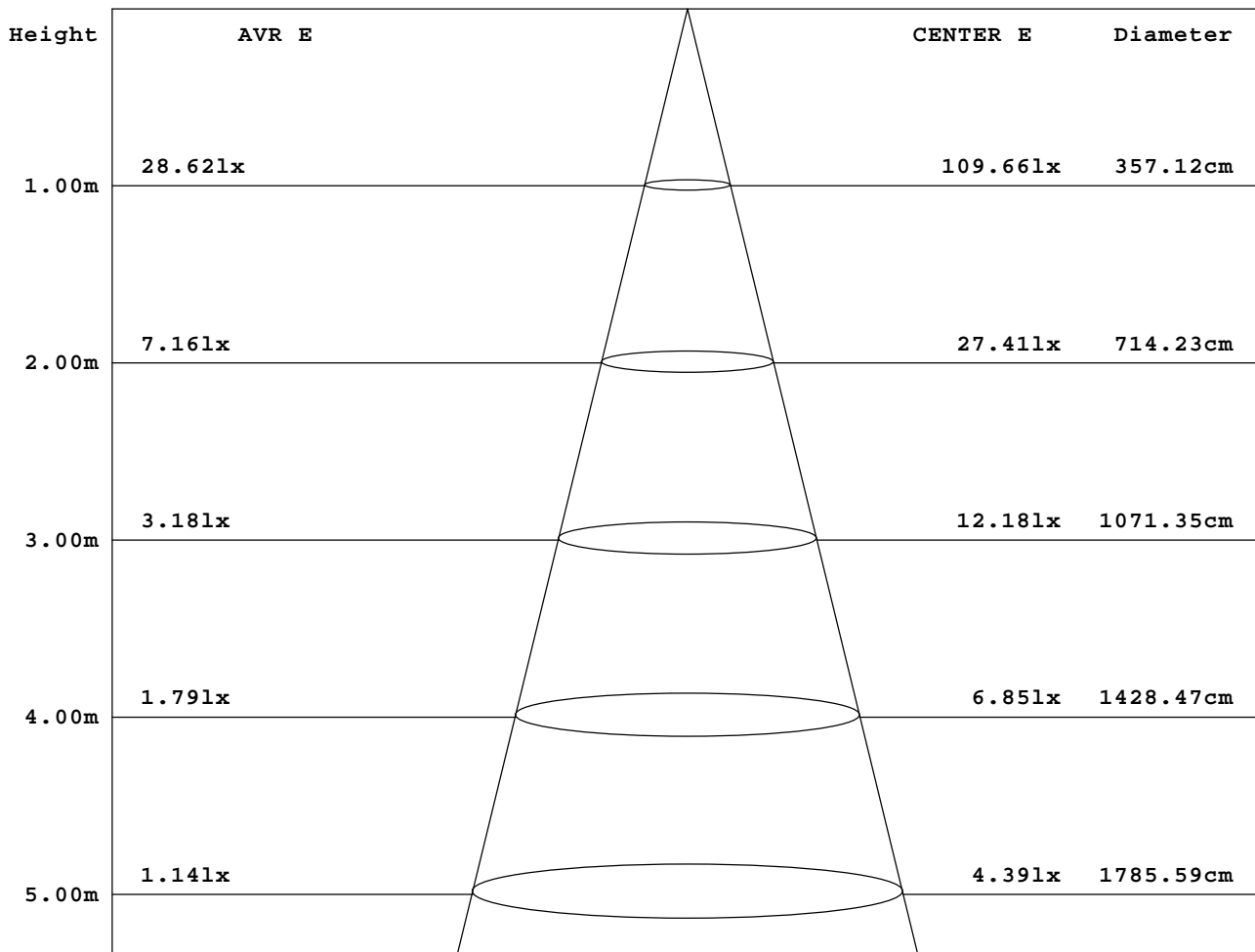
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.800 m
Remarks:

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:			
Address:			
NAME: COB 320D 24V 10W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/320D	CCT(K): 3000	DIMENSION: 0.5M*0.008M	SERIAL No.: 20230107002



Angle:121.5deg

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.800 m
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: COB 320D 24V 10W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/320D	CCT(K): 3000	DIMENSION: 0.5M*0.008M	SERIAL No.: 20230107002

g	C0	C45	C90	C135	C180	C225	C270	C315	g	Zone	tBtal
5.0	109.5	109.2	110.0	109.6	109.1	109.5	109.2	109.5	0- 5	2.620	2.620
10.0	108.4	108.1	109.5	108.6	107.7	108.7	108.4	108.5	5- 10	7.798	10.41
15.0	106.7	106.4	108.8	107.0	105.5	107.4	106.9	107.0	10- 15	12.78	23.20
20.0	104.1	104.1	107.6	105.0	102.6	105.3	105.1	105.0	15- 20	17.46	40.66
25.0	100.8	101.3	106.0	102.5	98.89	102.8	103.0	102.3	20- 25	21.72	62.39
30.0	96.80	98.03	104.2	99.51	94.47	99.82	100.5	99.27	25- 30	25.47	87.86
35.0	91.92	94.24	101.7	95.79	89.28	96.10	97.65	95.56	30- 35	28.61	116.4
40.0	86.19	89.75	99.04	91.68	83.24	92.07	94.47	91.45	35- 40	31.08	147.5
45.0	79.91	85.02	96.10	87.19	76.58	87.58	90.91	86.88	40- 45	32.82	180.3
50.0	72.87	79.91	92.85	82.24	69.30	82.55	87.19	82.00	45- 50	33.81	214.2
55.0	65.04	74.49	89.13	76.97	61.17	77.05	83.32	76.82	50- 55	34.05	248.2
60.0	57.07	68.99	85.57	71.70	52.81	71.63	79.29	67.14	55- 60	33.46	281.7
65.0	48.01	63.42	81.85	66.21	43.83	66.05	75.50	64.04	60- 65	32.31	314.0
70.0	38.41	58.15	77.05	61.25	34.22	61.02	69.69	59.39	65- 70	30.70	344.7
75.0	28.88	53.04	66.59	56.22	24.54	56.22	59.55	55.44	70- 75	28.24	372.9
80.0	19.28	47.85	61.95	50.95	15.41	51.11	55.44	51.18	75- 80	25.18	398.1
85.0	10.76	43.28	57.84	46.30	6.582	45.84	51.03	46.23	80- 85	22.46	420.6
90.0	5.265	34.30	49.71	36.93	2.323	37.86	40.96	38.25	85- 90	19.05	439.7
95.0	3.562	4.104	33.22	5.265	2.090	9.137	12.93	7.898	90- 95	11.57	451.2
100.0	3.407	2.013	5.033	2.090	2.168	4.414	2.245	4.414	95-100	2.634	453.9
105.0	3.252	2.013	4.414	2.168	2.168	4.104	2.245	4.104	100-105	1.675	455.5
110.0	3.175	2.168	4.104	2.168	2.245	3.949	2.323	3.872	105-110	1.587	457.1
115.0	3.097	2.245	3.872	2.245	2.323	3.794	2.400	3.717	110-115	1.510	458.6
120.0	3.097	2.323	3.717	2.323	2.400	3.639	2.478	3.639	115-120	1.439	460.1
125.0	3.097	2.323	3.639	2.400	2.555	3.562	2.555	3.562	120-125	1.369	461.4
130.0	3.097	2.400	3.562	2.478	2.555	3.562	2.555	3.562	125-130	1.291	462.7
135.0	3.097	2.478	3.484	2.555	2.632	3.484	2.632	3.484	130-135	1.202	463.9
140.0	3.097	2.555	3.407	2.632	2.710	3.407	2.632	3.484	135-140	1.105	465.0
145.0	3.097	2.555	3.407	2.632	2.787	3.407	2.710	3.407	140-145	1.002	466.0
150.0	3.097	2.632	3.329	2.710	2.865	3.407	2.710	3.407	145-150	0.887	466.9
155.0	3.097	2.710	3.329	2.787	2.865	3.329	2.787	3.407	150-155	0.765	467.7
160.0	3.097	2.710	3.252	2.787	2.942	3.252	2.787	3.329	155-160	0.638	468.3
165.0	3.097	2.710	3.252	2.865	2.942	3.252	2.787	3.329	160-165	0.499	468.8
170.0	3.097	2.710	3.252	2.865	3.020	3.175	2.787	3.252	165-170	0.360	469.2
175.0	3.020	2.787	3.252	2.865	3.020	3.175	2.865	3.252	170-175	0.217	469.4
180.0	3.020	2.865	3.252	2.942	3.097	3.097	2.865	3.175	175-180	0.073	469.5
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.800 m
 Remarks:

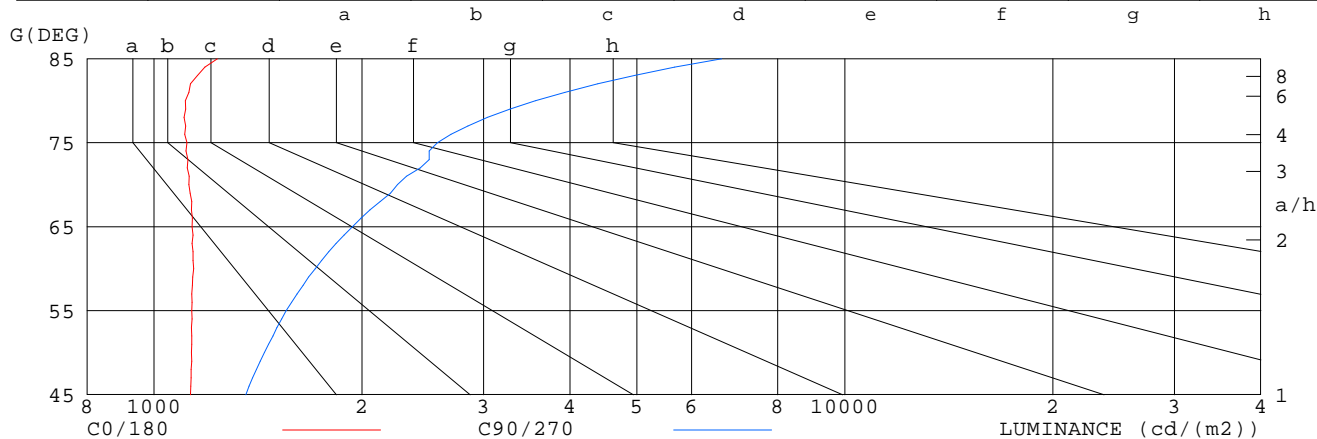
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:			
Address:			
NAME: COB 320D 24V 10W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/320D	CCT(K): 3000	DIMENSION: 0.5M*0.008M	SERIAL No.: 20230107002

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



G (DEG)	LUMINANCE cd/m2	
	C0/180	C90/270
85	1235	6637
80	1110	3568
75	1116	2573
70	1123	2253
65	1136	1937
60	1141	1711
55	1134	1554
50	1134	1444
45	1130	1359

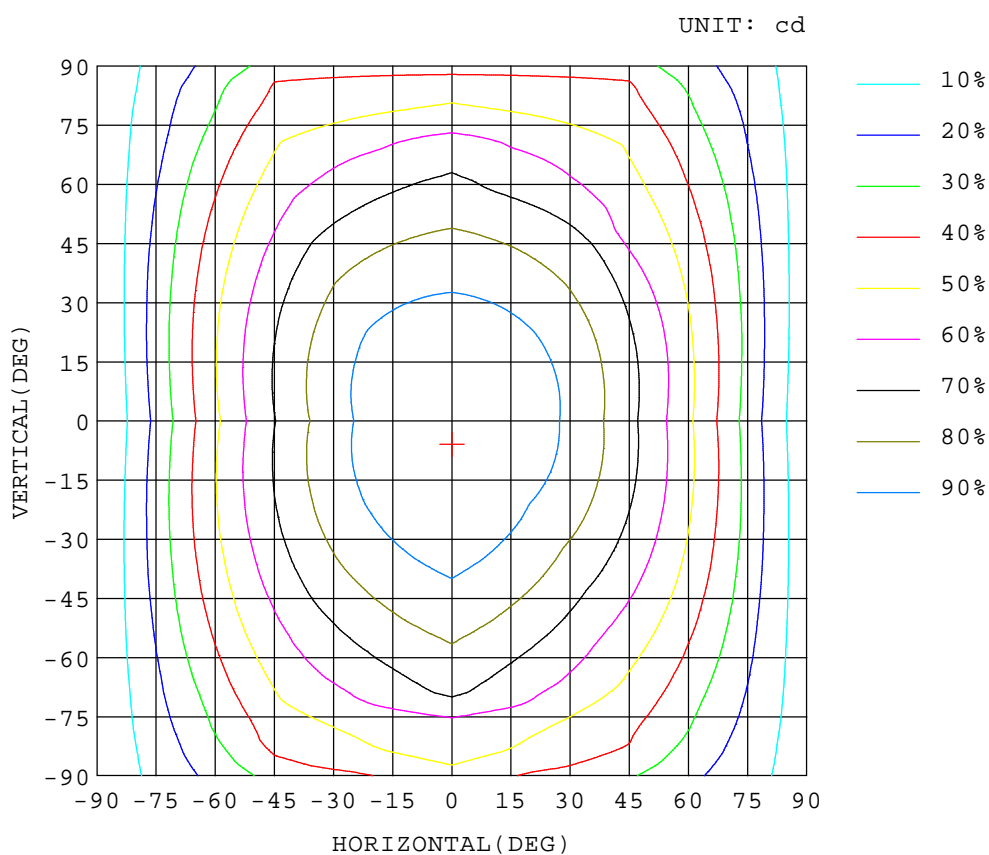
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.800 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: COB 320D 24V 10W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/320D	CCT(K): 3000	DIMENSION: 0.5M*0.008M	SERIAL No.: 20230107002



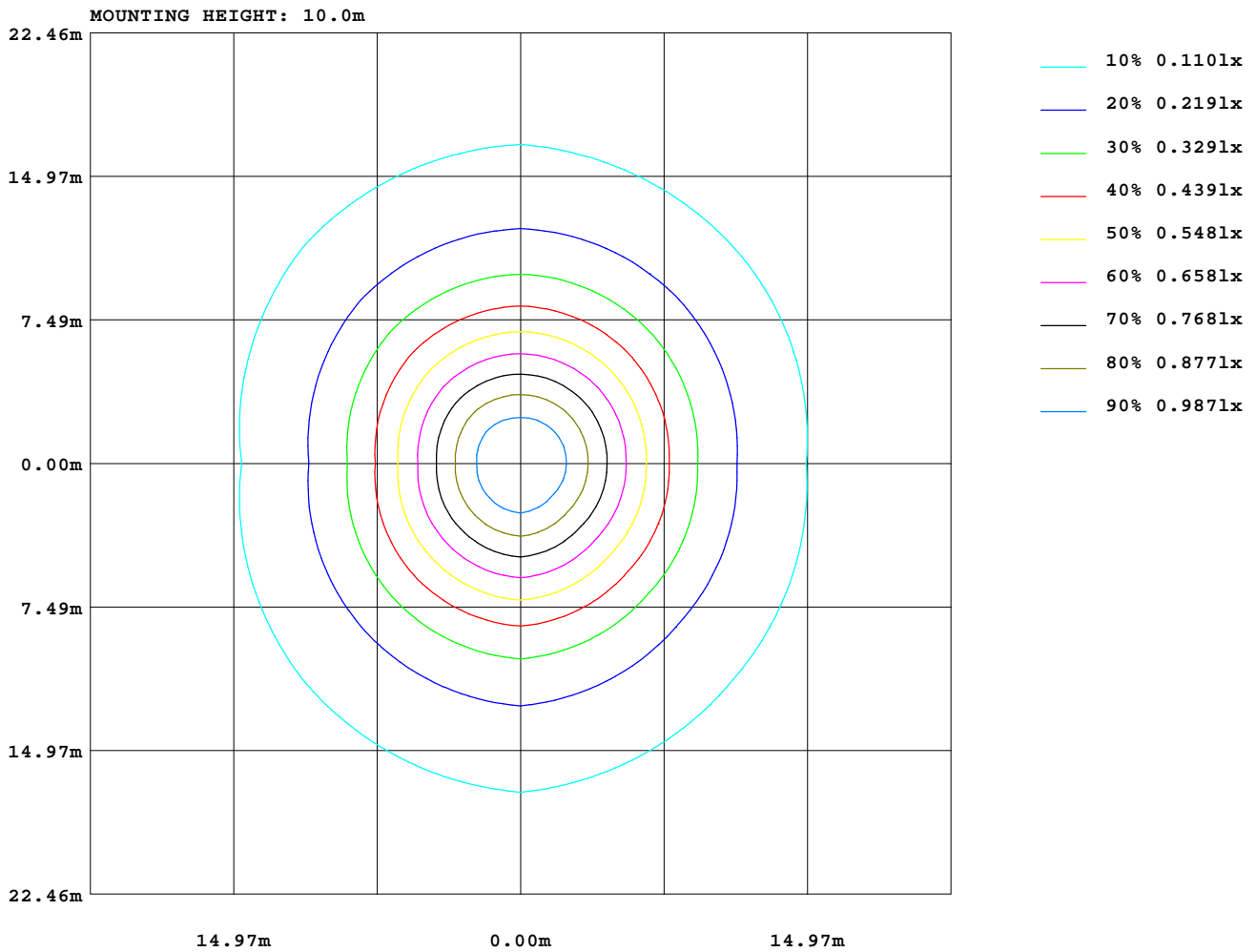
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.800 m
 Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: COB 320D 24V 10W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/320D	CCT(K): 3000	DIMENSION: 0.5M*0.008M	SERIAL No.: 20230107002



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.800 m
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:			
Address:			
NAME: COB 320D 24V 10W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/320D	CCT(K): 3000		DIMENSION: 0.5M*0.008M
SERIAL No.: 20230107002			

VERTICAL(DEG)	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.02	0.13	0.33	0.60	0.92	1.13	1.29	1.41	1.48	1.49	1.41	1.29	1.13	0.93	0.62	0.35	0.14	0.03	14.7	14.7		
90	0.02	0.13	0.33	0.60	0.92	1.13	1.29	1.41	1.48	1.49	1.41	1.29	1.13	0.93	0.62	0.35	0.14	0.03	14.7	14.7		
80	0.02	0.15	0.38	0.71	1.08	1.35	1.56	1.73	1.84	1.84	1.73	1.55	1.34	1.08	0.73	0.41	0.17	0.03	17.7	17.7		
70	0.03	0.17	0.44	0.81	1.21	1.56	1.85	2.08	2.24	2.23	2.06	1.82	1.53	1.20	0.82	0.47	0.19	0.03	20.7	20.7		
60	0.03	0.19	0.49	0.89	1.33	1.75	2.08	2.33	2.49	2.48	2.31	2.03	1.68	1.30	0.90	0.52	0.21	0.04	23.0	23.0		
50	0.03	0.20	0.53	0.97	1.45	1.92	2.30	2.57	2.73	2.72	2.56	2.29	1.90	1.42	0.98	0.56	0.23	0.04	25.4	25.4		
40	0.03	0.21	0.57	1.03	1.55	2.07	2.49	2.78	2.94	2.93	2.77	2.48	2.06	1.57	1.04	0.59	0.24	0.04	27.4	27.4		
30	0.03	0.22	0.59	1.07	1.63	2.17	2.63	2.95	3.10	3.10	2.94	2.62	2.18	1.66	1.10	0.62	0.24	0.04	28.9	28.9		
	0.03	0.22	0.59	1.09	1.67	2.23	2.71	3.06	3.23	3.22	3.06	2.73	2.26	1.71	1.14	0.63	0.25	0.04	29.9	29.9		
	0.03	0.21	0.58	1.08	1.66	2.23	2.73	3.10	3.29	3.30	3.12	2.77	2.29	1.72	1.14	0.63	0.24	0.04	30.2	30.2		
	0.03	0.21	0.58	1.08	1.66	2.23	2.73	3.10	3.30	3.30	3.11	2.76	2.28	1.72	1.14	0.63	0.24	0.04	30.2	30.1		
	0.03	0.22	0.59	1.09	1.66	2.22	2.71	3.06	3.26	3.25	3.04	2.70	2.24	1.70	1.14	0.63	0.24	0.04	29.8	29.8		
-30	0.03	0.22	0.59	1.07	1.62	2.16	2.63	2.97	3.17	3.16	2.94	2.59	2.15	1.64	1.10	0.62	0.24	0.04	29.0	28.9		
-40	0.03	0.21	0.57	1.03	1.55	2.06	2.50	2.83	3.04	3.03	2.80	2.45	2.02	1.54	1.04	0.59	0.23	0.04	27.6	27.5		
-50	0.03	0.20	0.53	0.97	1.45	1.92	2.33	2.65	2.86	2.85	2.62	2.28	1.87	1.42	0.97	0.55	0.22	0.04	25.8	25.7		
-60	0.03	0.19	0.49	0.90	1.34	1.76	2.14	2.44	2.64	2.63	2.41	2.09	1.70	1.29	0.88	0.50	0.20	0.03	23.7	23.6		
-70	0.02	0.17	0.44	0.81	1.22	1.59	1.93	2.21	2.41	2.40	2.18	1.88	1.53	1.16	0.79	0.44	0.18	0.03	21.4	21.4		
-80	0.02	0.15	0.38	0.71	1.08	1.38	1.64	1.86	2.02	2.01	1.83	1.59	1.32	1.02	0.69	0.39	0.16	0.03	18.3	18.2		
-90	0.02	0.12	0.32	0.60	0.92	1.16	1.38	1.56	1.69	1.68	1.53	1.33	1.11	0.86	0.57	0.32	0.13	0.03	15.3	15.3		
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL(DEG)				20	30	40	50	60	70	80	90		
Φ t	0.47	3.35	8.98	16.5	25.0	32.9	39.6	44.7	47.8	47.7	44.4	39.3	32.6	25.0	16.8	9.44	3.75	0.63	470			
Φ a	0.25	3.35	8.98	16.5	25.0	32.9	39.6	44.7	47.8	47.7	44.4	39.3	32.6	25.0	16.8	9.44	3.75	0.51		450		

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.800 m
 Remarks:

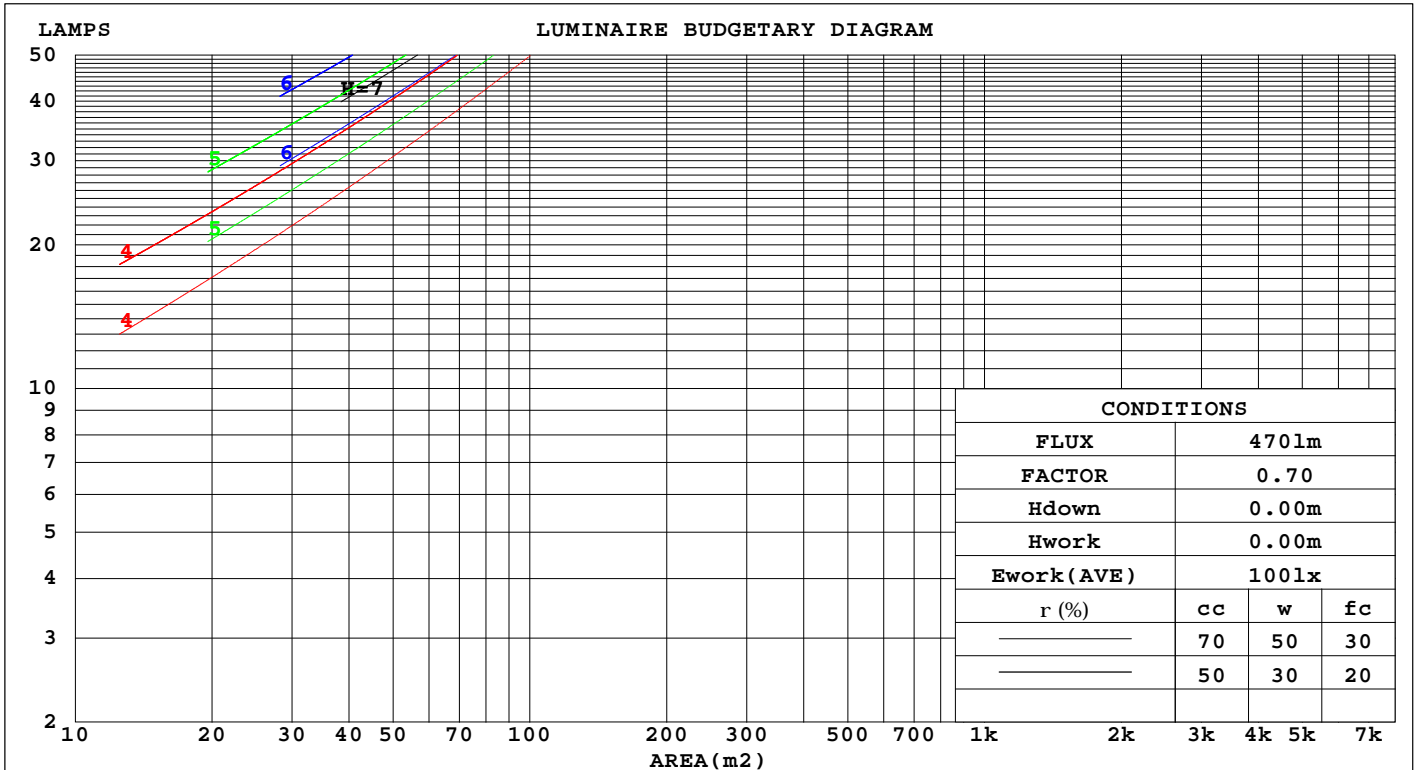
GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: COB 320D 24V 10W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/320D	CCT(K): 3000	DIMENSION: 0.5M*0.008M	SERIAL No.: 20230107002

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.18	1.18	1.18	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	.96	.96	.96	.94
1.0	.97	.91	.86	.94	.89	.84	.89	.84	.80	.83	.80	.77	.79	.76	.73	.70
2.0	.83	.74	.67	.80	.72	.66	.75	.69	.63	.71	.66	.61	.67	.62	.59	.56
3.0	.71	.62	.54	.69	.60	.53	.65	.58	.52	.61	.55	.50	.58	.53	.48	.45
4.0	.62	.53	.45	.61	.51	.44	.57	.49	.43	.54	.47	.42	.51	.45	.40	.38
5.0	.55	.45	.38	.54	.45	.38	.51	.43	.37	.48	.41	.36	.46	.39	.35	.32
6.0	.50	.40	.33	.48	.39	.32	.46	.38	.32	.43	.36	.31	.41	.35	.30	.28
7.0	.45	.35	.29	.44	.35	.28	.41	.33	.28	.39	.32	.27	.37	.31	.26	.24
8.0	.41	.32	.25	.40	.31	.25	.38	.30	.25	.36	.29	.24	.34	.28	.23	.21
9.0	.37	.28	.23	.36	.28	.22	.35	.27	.22	.33	.26	.21	.32	.25	.21	.19
10.0	.34	.26	.20	.33	.25	.20	.32	.25	.20	.31	.24	.19	.29	.23	.19	.17



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.800 m
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER:			
Address:			
NAME: COB 320D 24V 10W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/320D	CCT(K): 3000	DIMENSION: 0.5M*0.008M	SERIAL No.: 20230107002

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.411	.234	.074	.402	.229	.073	.384	.221	.070	.368	.212	.068	.354	.205	.066	
2.0	.353	.193	.059	.344	.190	.058	.329	.183	.057	.315	.176	.055	.301	.170	.054	
3.0	.312	.166	.050	.304	.163	.049	.290	.157	.048	.277	.152	.047	.265	.147	.045	
4.0	.279	.145	.043	.273	.143	.042	.260	.138	.041	.248	.133	.040	.238	.129	.039	
5.0	.253	.129	.037	.247	.127	.037	.236	.123	.036	.225	.119	.035	.215	.115	.035	
6.0	.231	.116	.033	.226	.114	.033	.215	.110	.032	.206	.107	.031	.197	.104	.031	
7.0	.212	.105	.030	.208	.103	.029	.199	.100	.029	.190	.097	.028	.182	.095	.028	
8.0	.197	.096	.027	.192	.095	.027	.184	.092	.026	.176	.089	.026	.169	.087	.025	
9.0	.183	.088	.025	.179	.087	.024	.171	.085	.024	.164	.082	.024	.158	.080	.023	
10.0	.171	.082	.023	.167	.081	.023	.161	.079	.022	.154	.077	.022	.148	.074	.021	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.239	.239	.239	.204	.204	.204	.139	.139	.139	.080	.080	.080	.026	.026	.026	
1.0	.236	.204	.175	.202	.175	.151	.138	.120	.104	.080	.070	.061	.025	.022	.020	
2.0	.230	.181	.140	.197	.156	.121	.135	.108	.084	.078	.063	.049	.025	.020	.016	
3.0	.222	.164	.118	.190	.141	.102	.131	.098	.072	.075	.057	.042	.024	.019	.014	
4.0	.214	.151	.103	.183	.131	.090	.126	.091	.063	.073	.053	.037	.023	.017	.012	
5.0	.206	.141	.094	.177	.122	.081	.122	.085	.058	.071	.050	.034	.023	.016	.011	
6.0	.198	.133	.087	.170	.115	.075	.117	.081	.053	.068	.047	.032	.022	.016	.010	
7.0	.191	.126	.081	.164	.110	.071	.113	.077	.050	.066	.045	.030	.021	.015	.010	
8.0	.184	.121	.077	.158	.105	.068	.109	.073	.048	.064	.043	.029	.021	.014	.009	
9.0	.177	.116	.074	.153	.100	.065	.106	.071	.046	.062	.042	.027	.020	.014	.009	
10.0	.171	.112	.072	.147	.097	.063	.102	.068	.045	.060	.040	.027	.019	.013	.009	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.800 m
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR Table

Report number:

MANUFACTURER:										
Address:										
NAME: COB 320D 24V 10W 3000K 90					TYPE: LED Strip			WEIGHT:		
SPECIFICATION: COB/320D			CCT(K): 3000		DIMENSION: 0.5M*0.008M			SERIAL No.: 20230107002		
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	12.7	14.3	13.1	14.6	15.0	14.2	15.8	14.6	16.1	16.5
3H	14.6	16.1	15.0	16.4	16.8	17.1	18.5	17.5	18.9	19.3
4H	15.4	16.8	15.9	17.2	17.6	18.5	19.9	18.9	20.3	20.7
6H	16.1	17.5	16.6	17.9	18.3	20.1	21.4	20.5	21.8	22.2
8H	16.4	17.7	16.9	18.1	18.6	21.0	22.3	21.5	22.7	23.2
12H	16.6	17.9	17.1	18.3	18.8	22.1	23.3	22.5	23.8	24.2
4H 2H	13.8	15.2	14.2	15.6	16.0	14.9	16.3	15.3	16.6	17.1
3H	15.9	17.2	16.4	17.6	18.0	17.9	19.2	18.4	19.6	20.0
4H	17.0	18.1	17.4	18.6	19.0	19.5	20.7	20.0	21.1	21.6
6H	17.9	18.9	18.4	19.4	19.9	21.3	22.4	21.8	22.8	23.3
8H	18.3	19.2	18.8	19.7	20.3	22.4	23.4	22.9	23.8	24.4
12H	18.6	19.5	19.1	20.0	20.6	23.6	24.5	24.1	25.0	25.6
8H 4H	17.9	18.9	18.4	19.4	19.9	19.9	20.9	20.5	21.4	21.9
6H	19.2	20.0	19.7	20.6	21.1	22.0	22.9	22.6	23.4	23.9
8H	19.8	20.6	20.4	21.1	21.7	23.3	24.0	23.9	24.6	25.2
12H	20.4	21.0	21.0	21.6	22.2	24.8	25.4	25.3	26.0	26.6
12H 4H	18.2	19.1	18.7	19.6	20.1	20.0	20.9	20.5	21.4	22.0
6H	19.7	20.4	20.2	21.0	21.6	22.2	22.9	22.7	23.5	24.1
8H	20.5	21.1	21.1	21.7	22.3	23.6	24.2	24.1	24.8	25.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 469.5 lm Total Lamp Luminous Flux.(8log(F/F0) = -2.6)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.800 m
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:			
Address:			
NAME: COB 320D 24V 10W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/320D	CCT(K): 3000	DIMENSION: 0.5M*0.008M	SERIAL No.: 20230107002

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	50	37	30	49	37	30	48	36	30	23
0.80	59	46	38	58	46	38	56	45	37	29
1.00	67	54	46	66	53	45	63	55	45	36
1.25	74	62	53	72	61	52	69	59	51	43
1.50	79	67	59	77	66	58	73	64	57	47
2.00	87	76	67	84	74	66	80	71	65	55
2.50	91	81	73	88	79	72	84	76	70	59
3.00	95	86	78	92	84	77	87	80	74	63
4.00	100	92	85	97	89	83	91	85	80	69
5.00	103	96	90	99	93	88	94	89	84	72
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

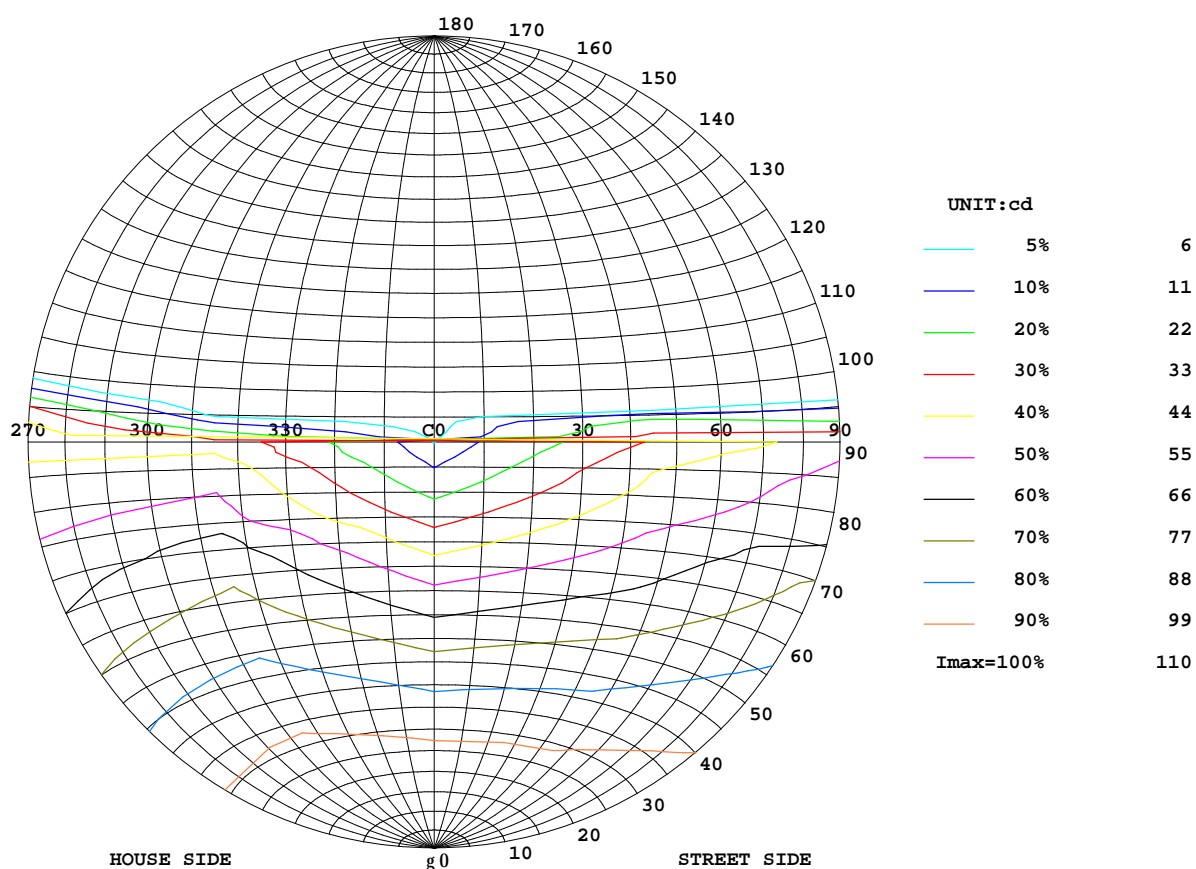
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.800 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: COB 320D 24V 10W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/320D	CCT(K): 3000	DIMENSION: 0.5M*0.008M	SERIAL No.: 20230107002



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2023年01月07日

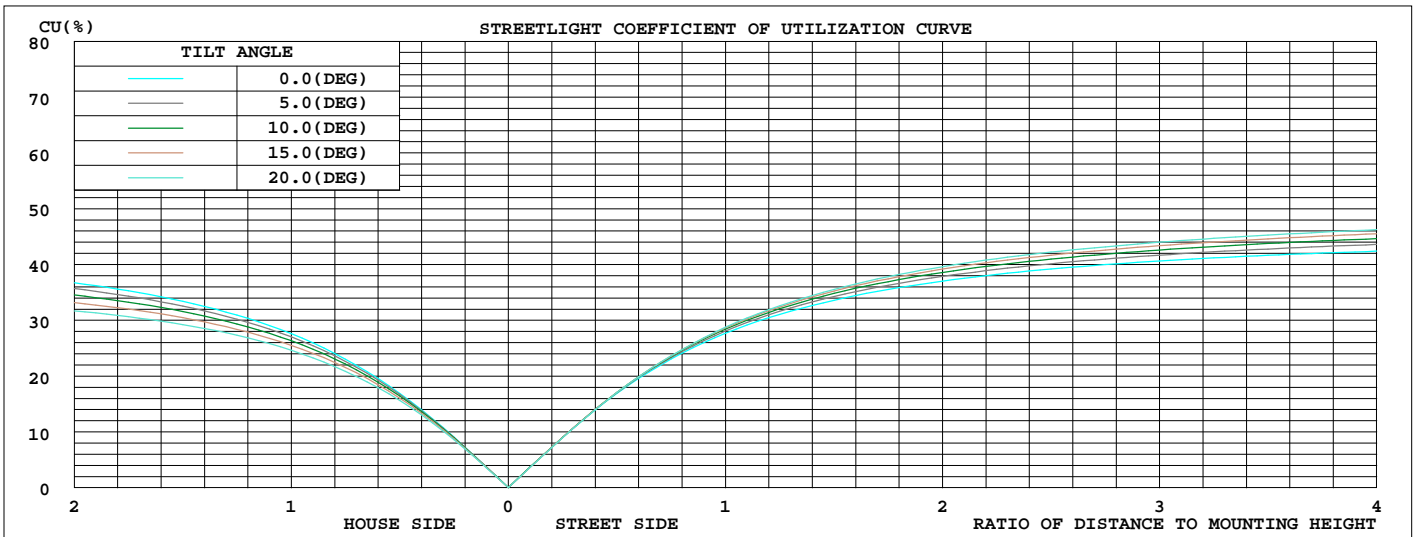
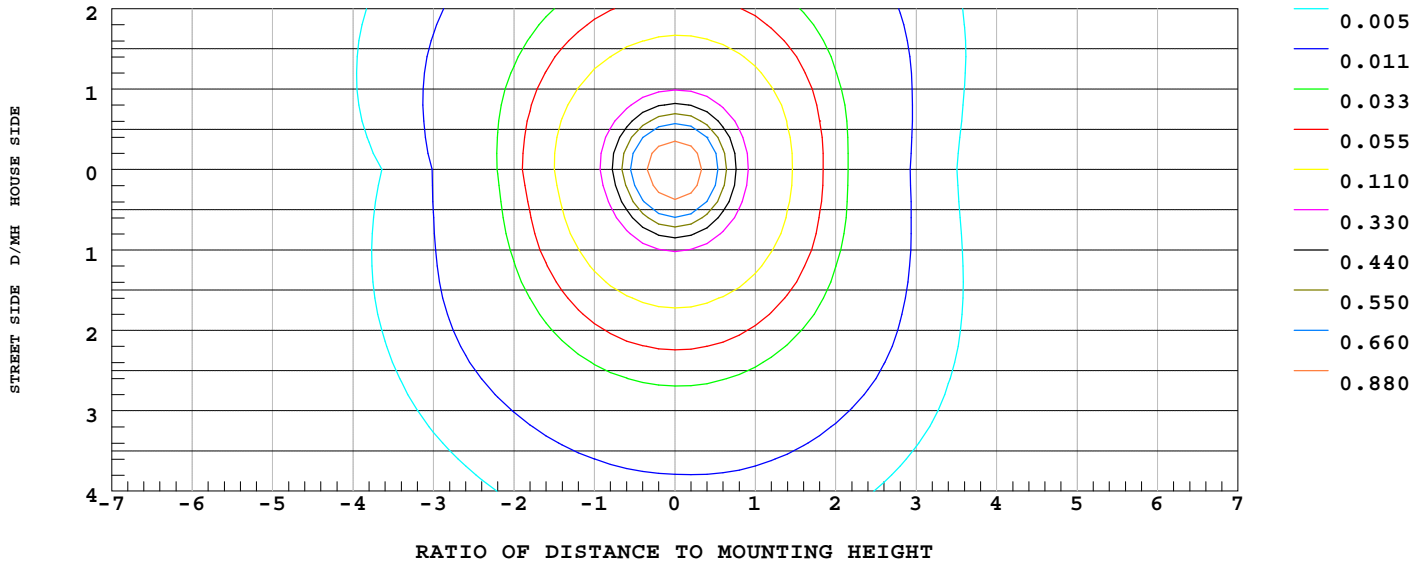
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.800 m
 Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: COB 320D 24V 10W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/320D	CCT(K): 3000	DIMENSION: 0.5M*0.008M	SERIAL No.: 20230107002

ILLUMINANCE AT MH=10 m, Enadir = 1.10 lx



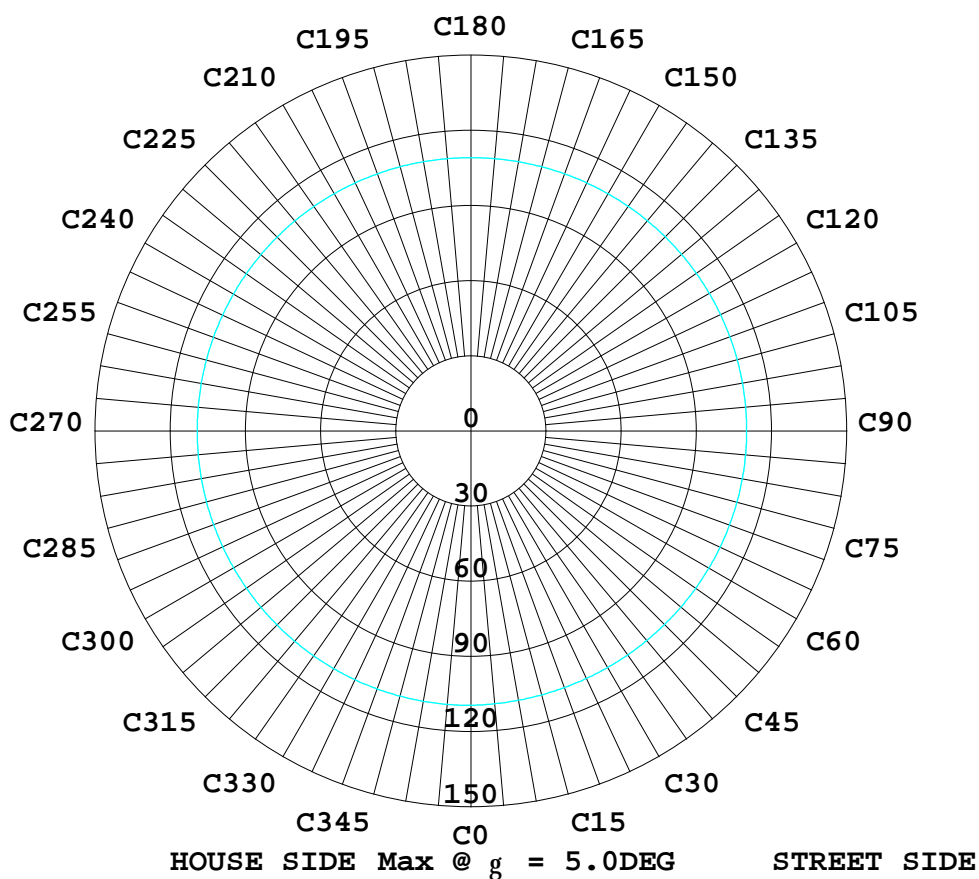
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.800 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: COB 320D 24V 10W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/320D	CCT(K): 3000	DIMENSION: 0.5M*0.008M	SERIAL No.: 20230107002



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.800 m
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:			
Address:			
NAME: COB 320D 24V 10W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/320D	CCT(K): 3000	DIMENSION: 0.5M*0.008M	SERIAL No.: 20230107002

UNIT: cd

γ (DEG)	C (DEG)							
	0	45	90	135	180	225	270	315
0.0	110	110	110	110	110	110	110	110
5.0	110	109	110	110	109	110	109	110
10.0	108	108	110	109	108	109	108	109
15.0	107	106	109	107	106	107	107	107
20.0	104	104	108	105	103	105	105	105
25.0	101	101	106	103	98.8	103	103	102
30.0	96.8	98.0	104	99.5	94.4	99.8	101	99.2
35.0	91.9	94.2	102	95.7	89.2	96.1	97.6	95.5
40.0	86.1	89.7	99.0	91.6	83.2	92.0	94.4	91.4
45.0	79.9	85.0	96.1	87.1	76.5	87.5	90.9	86.8
50.0	72.8	79.9	92.8	82.2	69.3	82.5	87.1	82.0
55.0	65.0	74.4	89.1	76.9	61.1	77.0	83.3	76.8
60.0	57.0	68.9	85.5	71.7	52.8	71.6	79.2	67.1
65.0	48.0	63.4	81.8	66.2	43.8	66.0	75.5	64.0
70.0	38.4	58.1	77.0	61.2	34.2	61.0	69.6	59.3
75.0	28.8	53.0	66.5	56.2	24.5	56.2	59.5	55.4
80.0	19.2	47.8	61.9	50.9	15.4	51.1	55.4	51.1
85.0	10.7	43.2	57.8	46.3	6.58	45.8	51.0	46.2
90.0	5.26	34.3	49.7	36.9	2.32	37.8	40.9	38.2
95.0	3.56	4.10	33.2	5.26	2.09	9.13	12.9	7.89
100.0	3.40	2.01	5.03	2.09	2.16	4.41	2.24	4.41
105.0	3.25	2.01	4.41	2.16	2.16	4.10	2.24	4.10
110.0	3.17	2.16	4.10	2.16	2.24	3.94	2.32	3.87
115.0	3.09	2.24	3.87	2.24	2.32	3.79	2.40	3.71
120.0	3.09	2.32	3.71	2.32	2.40	3.63	2.47	3.63
125.0	3.09	2.32	3.63	2.40	2.55	3.56	2.55	3.56
130.0	3.09	2.40	3.56	2.47	2.55	3.56	2.55	3.56
135.0	3.09	2.47	3.48	2.55	2.63	3.48	2.63	3.48
140.0	3.09	2.55	3.40	2.63	2.71	3.40	2.63	3.48
145.0	3.09	2.55	3.40	2.63	2.78	3.40	2.71	3.40
150.0	3.09	2.63	3.32	2.71	2.86	3.40	2.71	3.40
155.0	3.09	2.71	3.32	2.78	2.86	3.32	2.78	3.40
160.0	3.09	2.71	3.25	2.78	2.94	3.25	2.78	3.32
165.0	3.09	2.71	3.25	2.86	2.94	3.25	2.78	3.32
170.0	3.09	2.71	3.25	2.86	3.02	3.17	2.78	3.25
175.0	3.02	2.78	3.25	2.86	3.02	3.17	2.86	3.25
180.0	3.02	2.86	3.25	2.94	3.09	3.09	2.86	3.17

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.800 m
 Remarks: