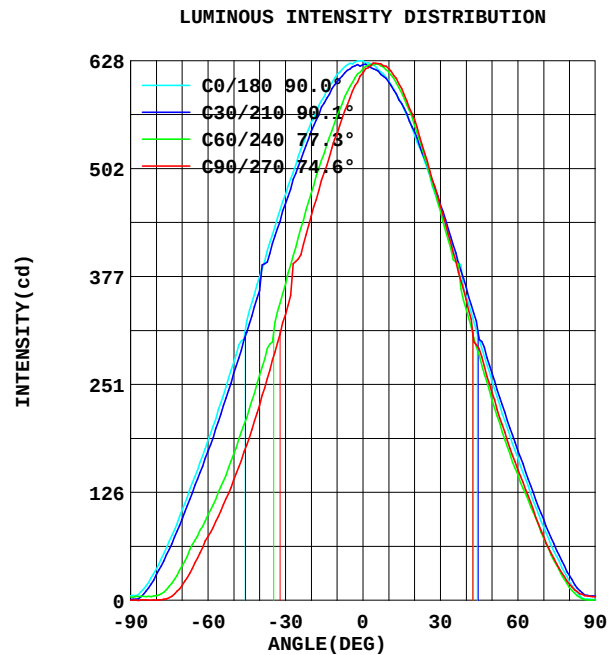
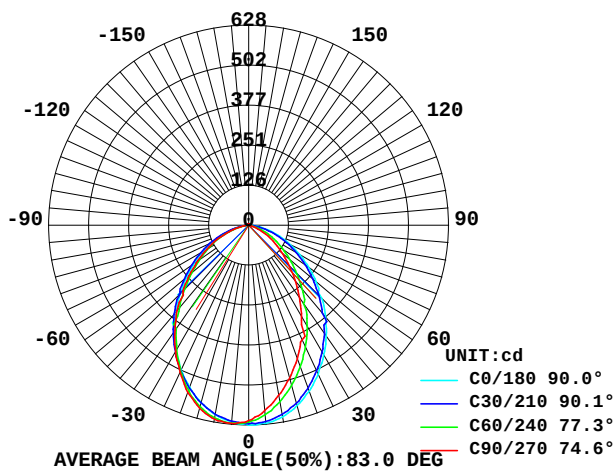


STREETLIGHT PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER:			
Address:			
NAME: 52524BK		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:

MODEL:		Imax(cd):	627.7	Effective Flux(lm):	1147.4
NOMINAL POWER(W):	20	MAXIMUM(C, γ):	0, 0.0	EEI	0.231
RATED VOLTAGE(V):	120	EFFICIENCY(%):	100.0	Voltage(V)	120.3
NOMINAL FLUX(lm):	1201.9	η street_up(%):	0.6	Current(A)	0.168
TEST FLUX(lm):	1202	η street_down(%):	43.6	Power(W)	19.90
LAMPS QUANTITY:	1	η house_up(%):	0.6	Power Factor	0.984
TOTAL RADIANT(mw):	1202	η house_down(%):	55.1	EEFICIENCY(lm/W)	60.4



Test System:HOPPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2025年04月19日

Test Set: 10.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks:

Color Temperature Data List

Report number:

MANUFACTURER:			
Address:			
NAME: 52524BK		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:

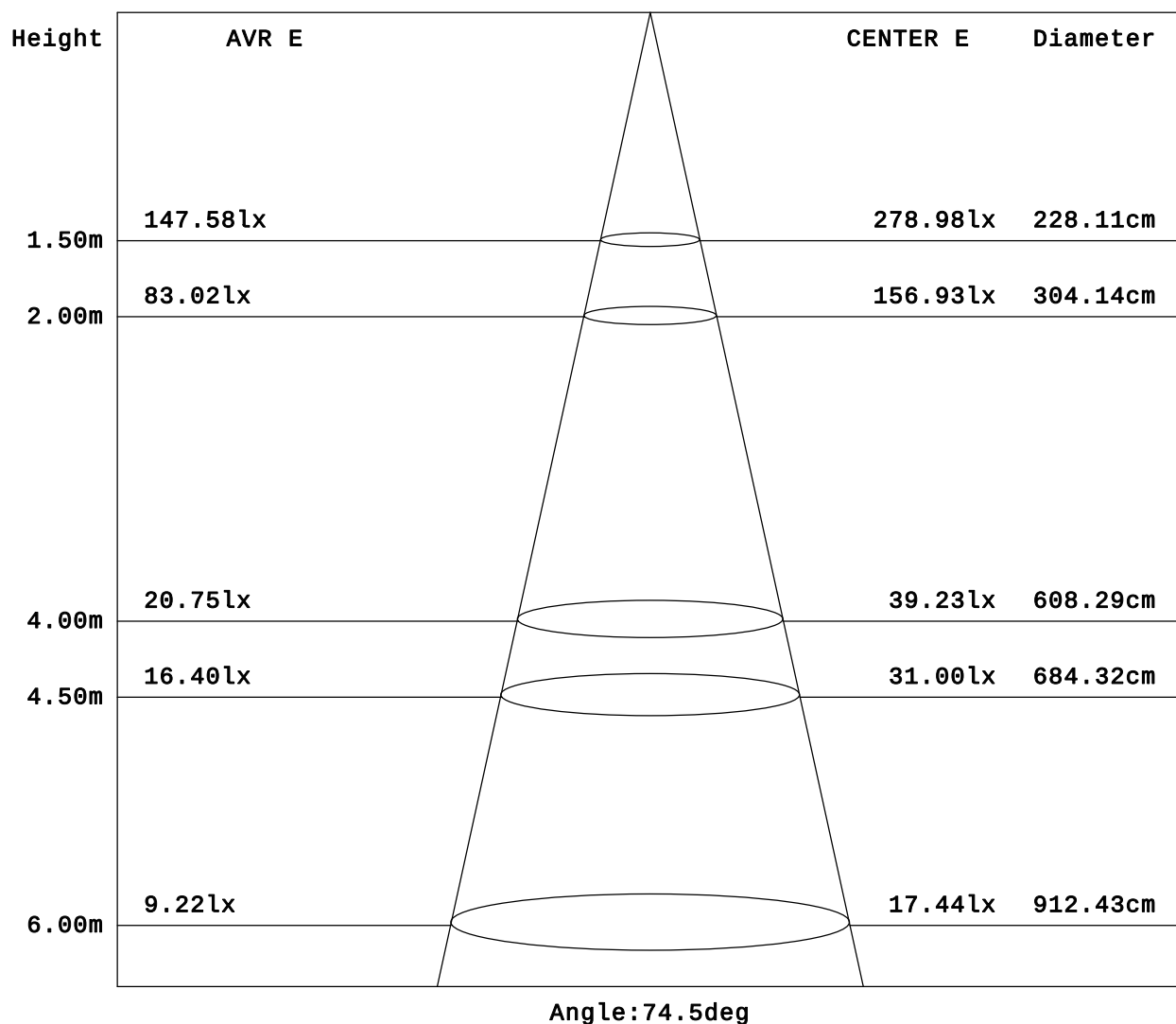
Test System:HOPPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2025年04月19日

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:			
Address:			
NAME: 52524BK		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:



Test System: HOP00 HPG1600
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025年04月19日

Test Set: 10.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks:



ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 52524BK		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	624.4	600.2	584.0	589.4	620.2	623.5	624.7	619.8	0- 5	14.65	14.65
10.0	611.3	571.0	542.7	557.3	604.1	614.7	618.5	614.6	5- 10	42.91	57.57
15.0	586.0	531.6	497.3	514.9	577.2	591.7	595.0	593.8	10- 15	68.23	125.8
20.0	555.6	486.7	446.4	469.0	541.2	557.3	559.2	562.0	15- 20	89.07	214.8
25.0	516.6	436.8	397.0	418.9	502.0	513.2	510.6	519.3	20- 25	104.4	319.3
30.0	471.8	392.7	332.1	363.9	456.4	461.8	458.3	468.3	25- 30	113.9	433.2
35.0	425.0	330.9	279.3	312.5	406.3	407.9	404.3	414.9	30- 35	117.2	550.4
40.0	376.5	279.2	226.7	261.2	353.5	352.7	350.2	360.7	35- 40	115.9	666.3
45.0	325.2	230.5	180.8	213.3	304.8	297.7	292.3	301.6	40- 45	108.7	775.1
50.0	276.5	187.1	140.1	171.1	254.0	247.7	241.5	255.6	45- 50	98.76	873.8
55.0	229.9	146.5	103.9	132.6	208.5	201.0	195.5	208.9	50- 55	86.76	960.6
60.0	186.1	112.0	74.09	99.44	165.8	157.8	151.8	165.6	55- 60	73.14	1034
65.0	144.0	81.00	43.79	70.30	123.3	120.0	113.6	127.0	60- 65	58.73	1093
70.0	104.9	52.84	17.20	40.54	85.29	86.69	74.50	94.05	65- 70	43.42	1136
75.0	68.90	25.44	3.100	15.45	51.00	51.70	42.09	59.54	70- 75	28.15	1164
80.0	36.00	6.000	0.300	3.200	21.50	22.54	18.79	29.34	75- 80	14.96	1179
85.0	12.80	2.500	0.400	2.250	2.900	5.150	6.900	8.450	80- 85	5.807	1185
90.0	5.500	2.500	0.100	2.150	1.200	2.600	4.300	2.450	85- 90	1.766	1187
95.0	4.800	2.250	0.600	2.200	0.900	2.300	4.200	2.400	90- 95	1.293	1188
100.0	4.600	2.200	0.300	1.900	1.500	2.250	3.600	2.250	95-100	1.214	1189
105.0	4.300	2.150	0.700	2.150	1.100	2.300	3.700	2.200	100-105	1.174	1190
110.0	4.200	2.150	0.900	2.050	1.700	2.300	3.500	2.000	105-110	1.145	1191
115.0	4.100	2.300	0.800	2.000	1.900	2.250	3.200	2.150	110-115	1.108	1193
120.0	4.100	2.350	0.800	2.400	2.300	2.250	3.100	2.000	115-120	1.081	1194
125.0	4.000	2.500	1.300	2.250	2.500	2.550	3.200	2.050	120-125	1.053	1195
130.0	4.000	2.550	0.900	2.000	2.500	2.550	3.200	2.150	125-130	1.019	1196
135.0	4.000	2.550	1.400	2.550	2.700	2.150	3.000	2.150	130-135	0.982	1197
140.0	3.900	2.700	1.500	2.250	2.600	2.700	3.300	2.300	135-140	0.943	1198
145.0	4.200	2.600	2.000	2.550	2.700	2.700	2.900	2.300	140-145	0.883	1199
150.0	4.300	2.900	2.100	2.750	2.700	2.500	3.300	2.600	145-150	0.811	1199
155.0	4.100	2.800	1.800	2.700	3.400	2.900	3.600	2.700	150-155	0.719	1200
160.0	4.200	3.050	2.100	2.950	3.100	3.050	3.200	2.800	155-160	0.613	1201
165.0	4.100	3.100	2.400	2.750	3.800	3.300	3.500	3.150	160-165	0.501	1201
170.0	4.200	3.150	2.600	3.000	3.400	3.250	3.500	3.150	165-170	0.371	1202
175.0	4.100	3.100	2.900	3.100	3.700	3.300	3.200	3.150	170-175	0.228	1202
180.0	4.100	3.550	2.700	3.050	4.400	3.400	3.500	2.950	175-180	0.076	1202
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

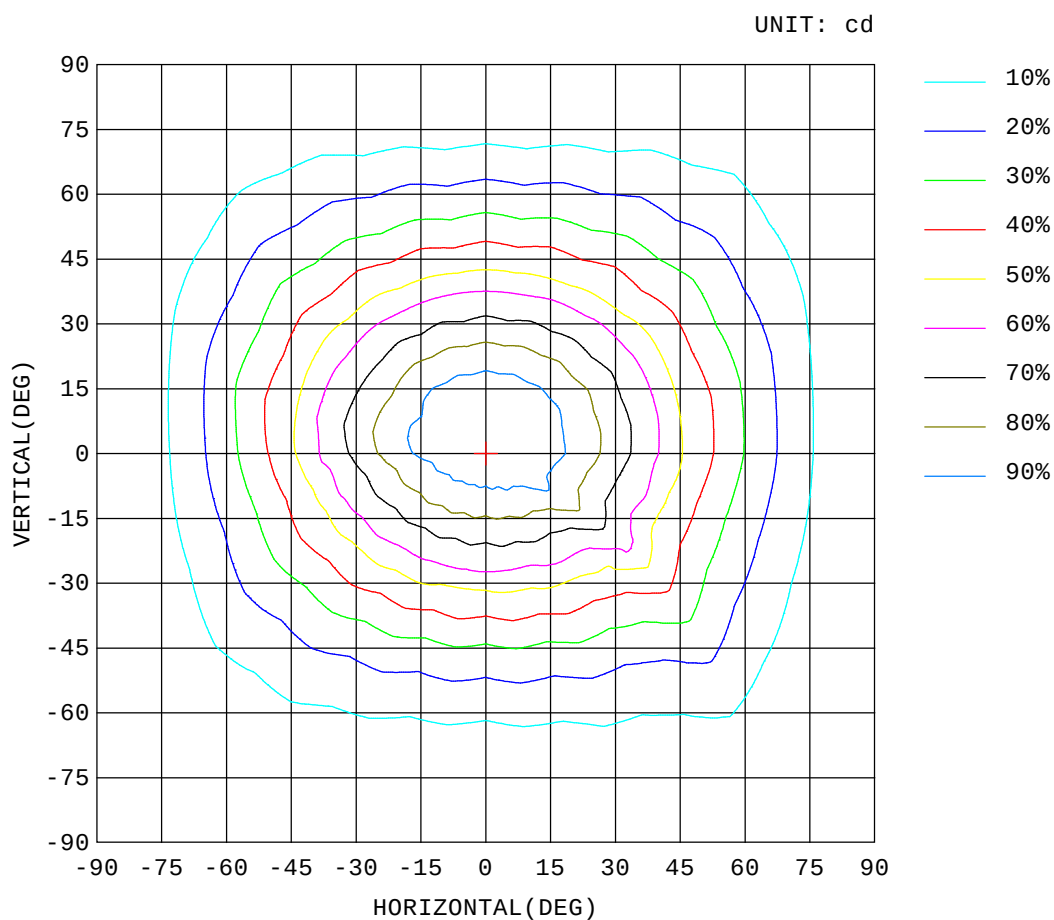
Test System:HOPPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2025年04月19日

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 52524BK		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:



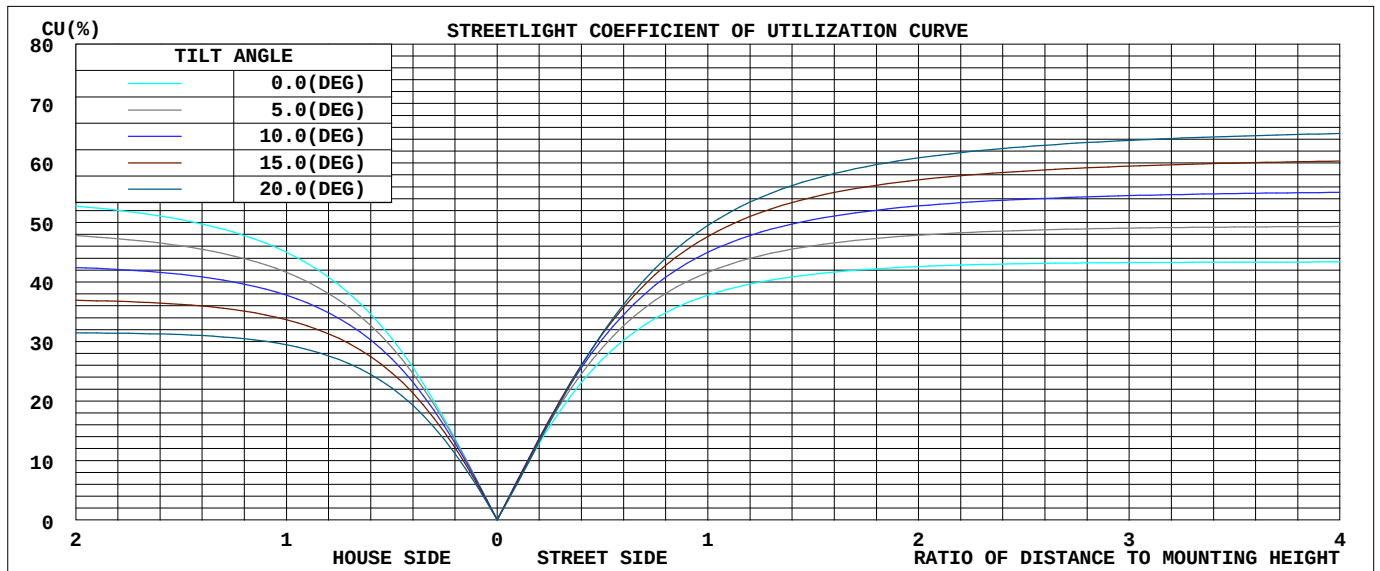
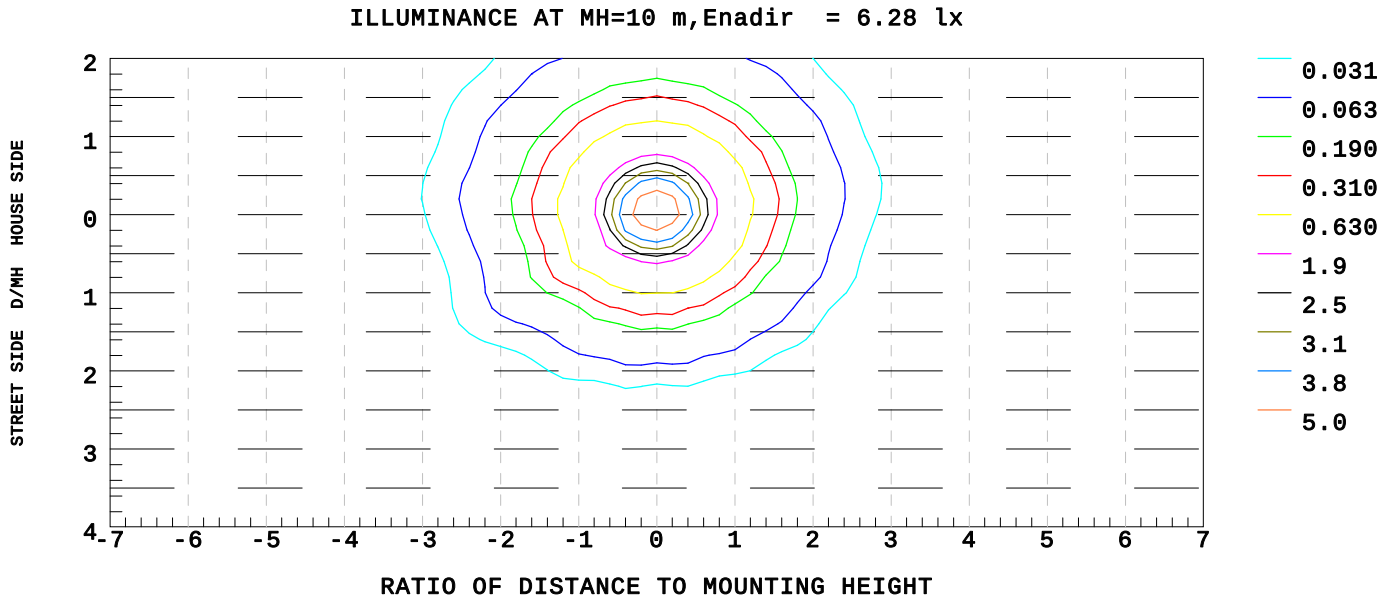
Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:2025年04月19日

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 52524BK		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:



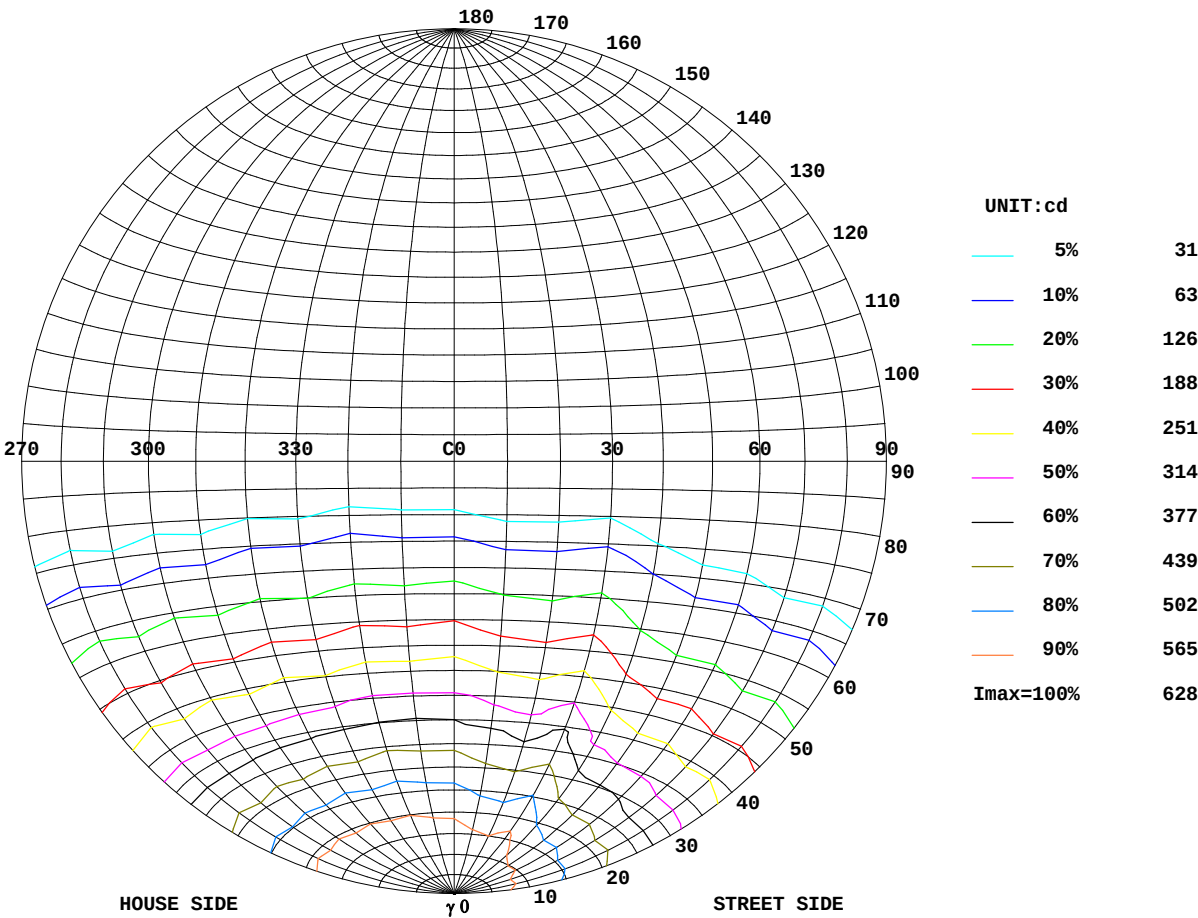
Test System:HOPPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2025年04月19日

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 52524BK		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:



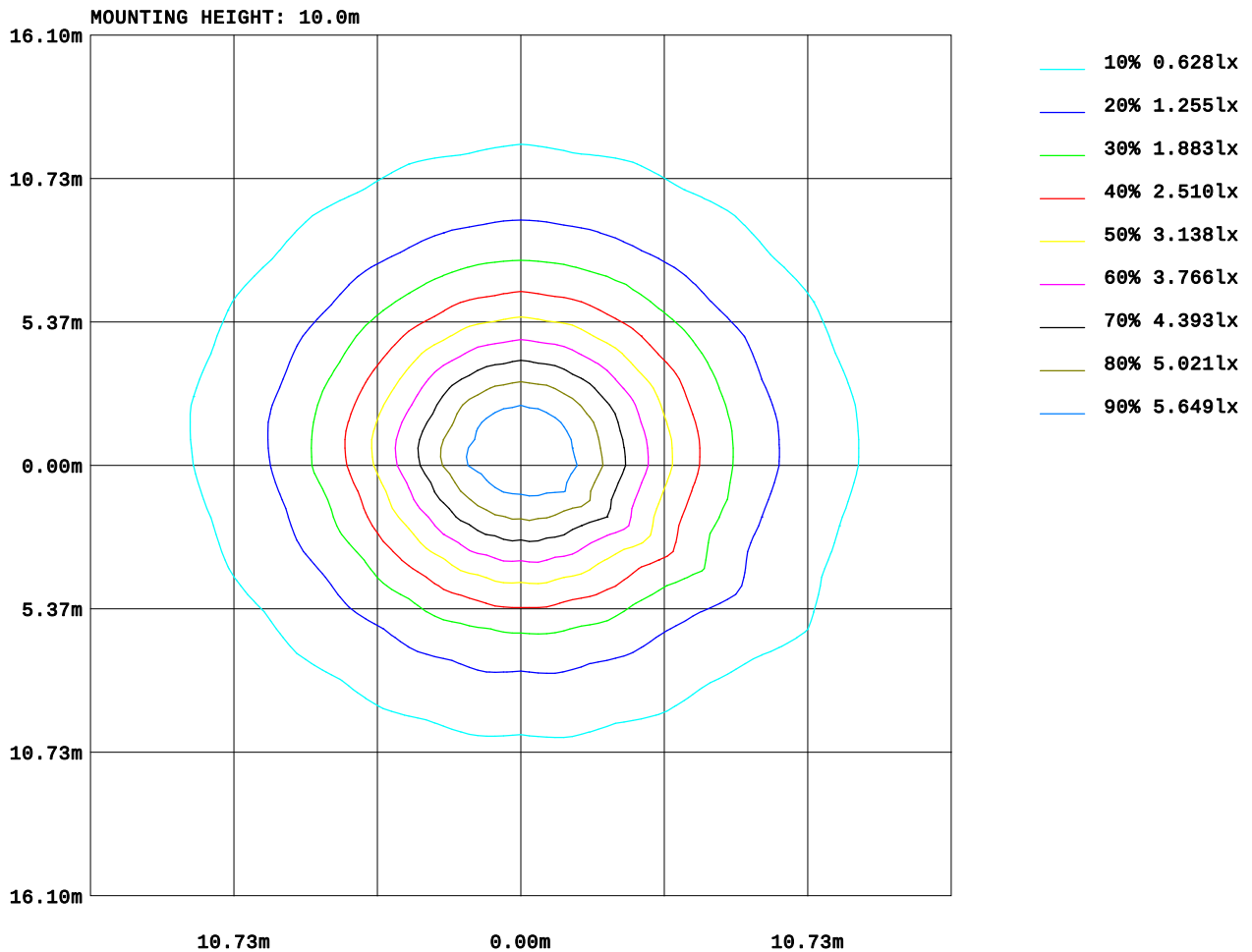
Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:2025年04月19日

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 52524BK		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:



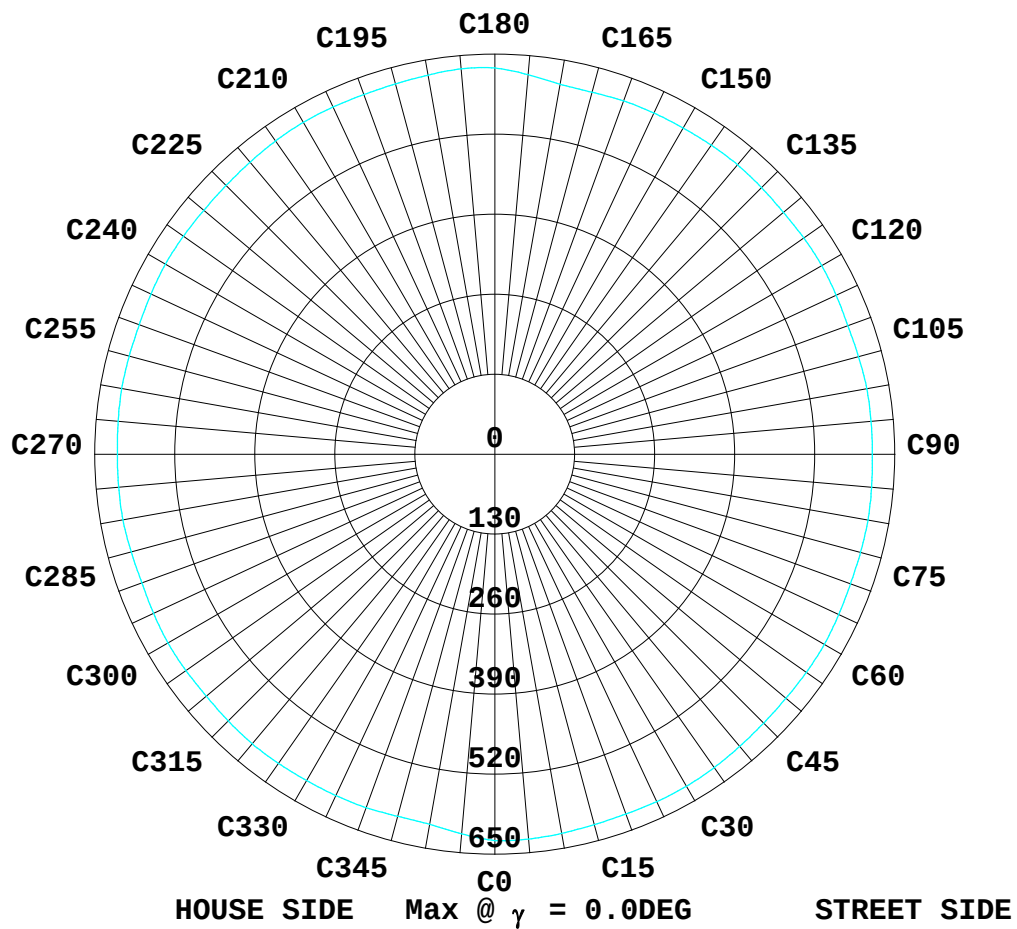
Test System:HOPPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2025年04月19日

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 52524BK		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:2025年04月19日

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:



AREA LUMINOUS FLUX

Report number:

MANUFACTURER:																			
Address:																			
NAME: 52524BK										TYPE:					WEIGHT:				
SPECIFICATION:					CCT(K): 0					DIMENSION:					SERIAL No.:				

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT: lm		Φ t	Φ a
	0.01	0.02	0.04	0.07	0.09	0.12	0.15	0.17	0.18	0.18	0.18	0.18	0.16	0.14	0.11	0.07	0.03	0.01	1.89	0.00		
90																						
80	0.01	0.04	0.14	0.33	0.56	0.81	0.97	1.13	1.20	1.22	1.19	1.07	0.95	0.71	0.49	0.24	0.08	0.02	11.2	0.84		
70	0.01	0.10	0.38	0.88	1.46	2.13	2.57	3.05	3.24	3.27	3.13	2.70	2.28	1.64	1.10	0.52	0.17	0.02	28.7	25.4		
60	0.01	0.19	0.66	1.52	2.44	3.56	4.39	5.29	5.68	5.71	5.39	4.54	3.73	2.61	1.72	0.81	0.27	0.03	48.6	47.2		
50	0.02	0.28	0.95	2.15	3.55	5.10	6.58	7.89	8.58	8.62	8.01	6.75	5.30	3.71	2.32	1.10	0.37	0.04	71.3	70.5		
40	0.02	0.37	1.25	2.69	4.71	6.75	9.02	10.8	12.0	12.0	11.0	9.20	6.94	4.89	2.85	1.40	0.46	0.05	96.6	96.0		
30	0.03	0.42	1.52	3.23	5.60	8.44	11.3	13.7	15.1	15.2	13.8	11.5	8.74	5.80	3.40	1.67	0.52	0.05	120	120		
	0.03	0.44	1.66	3.69	6.38	9.73	12.9	15.9	17.6	17.7	16.1	13.3	9.98	6.58	3.89	1.84	0.56	0.05	139	138		
	0.03	0.44	1.66	3.75	6.67	10.3	13.9	16.9	18.6	18.6	17.0	14.1	10.5	7.00	4.05	1.89	0.57	0.06	146	146		
	0.02	0.42	1.55	3.48	6.16	9.50	12.8	15.7	17.4	17.8	16.5	13.5	10.1	6.65	3.85	1.80	0.55	0.05	138	138		
	0.02	0.36	1.35	3.02	5.39	8.17	11.0	13.4	14.9	15.1	14.1	12.4	9.13	5.90	3.39	1.60	0.49	0.05	120	120		
	0.02	0.29	1.13	2.61	4.46	6.53	8.77	10.6	11.8	11.9	11.1	9.49	8.08	5.32	2.96	1.36	0.41	0.04	97.1	96.4		
-30	0.01	0.22	0.92	2.05	3.32	4.97	6.39	7.70	8.47	8.60	8.00	6.81	5.67	4.54	2.54	1.13	0.32	0.03	71.7	70.9		
-40	0.01	0.15	0.67	1.41	2.38	3.36	4.34	5.06	5.62	5.69	5.27	4.67	3.72	3.15	2.10	0.88	0.24	0.02	48.7	47.5		
-50	0.00	0.08	0.41	0.85	1.52	2.02	2.65	2.97	3.30	3.35	3.13	2.88	2.28	1.91	1.47	0.63	0.15	0.01	29.6	27.1		
-60	0.00	0.03	0.16	0.34	0.66	0.87	1.15	1.28	1.43	1.48	1.41	1.37	1.12	0.94	0.81	0.37	0.08	0.01	13.5	3.06		
-70	0.00	0.02	0.04	0.06	0.12	0.13	0.19	0.20	0.23	0.25	0.25	0.27	0.23	0.21	0.28	0.15	0.03	0.01	2.67	0.00		
-80	0.00	0.02	0.03	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.06	0.07	0.06	0.05	0.07	0.04	0.02	0.01	0.83	0.00		
-90																						
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)					20	30	40	50	60	70	80	90	
Φ t	0.25	3.90	14.5	32.2	55.5	82.6	109	132	146	147	136	115	89.1	61.8	37.4	17.5	5.32	0.56	1202			
Φ a	0.00	1.02	11.9	29.8	53.2	80.3	107	130	143	145	134	113	86.8	59.6	35.2	14.9	2.40	0.00		1147		

Test System:HOPPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2025年04月19日

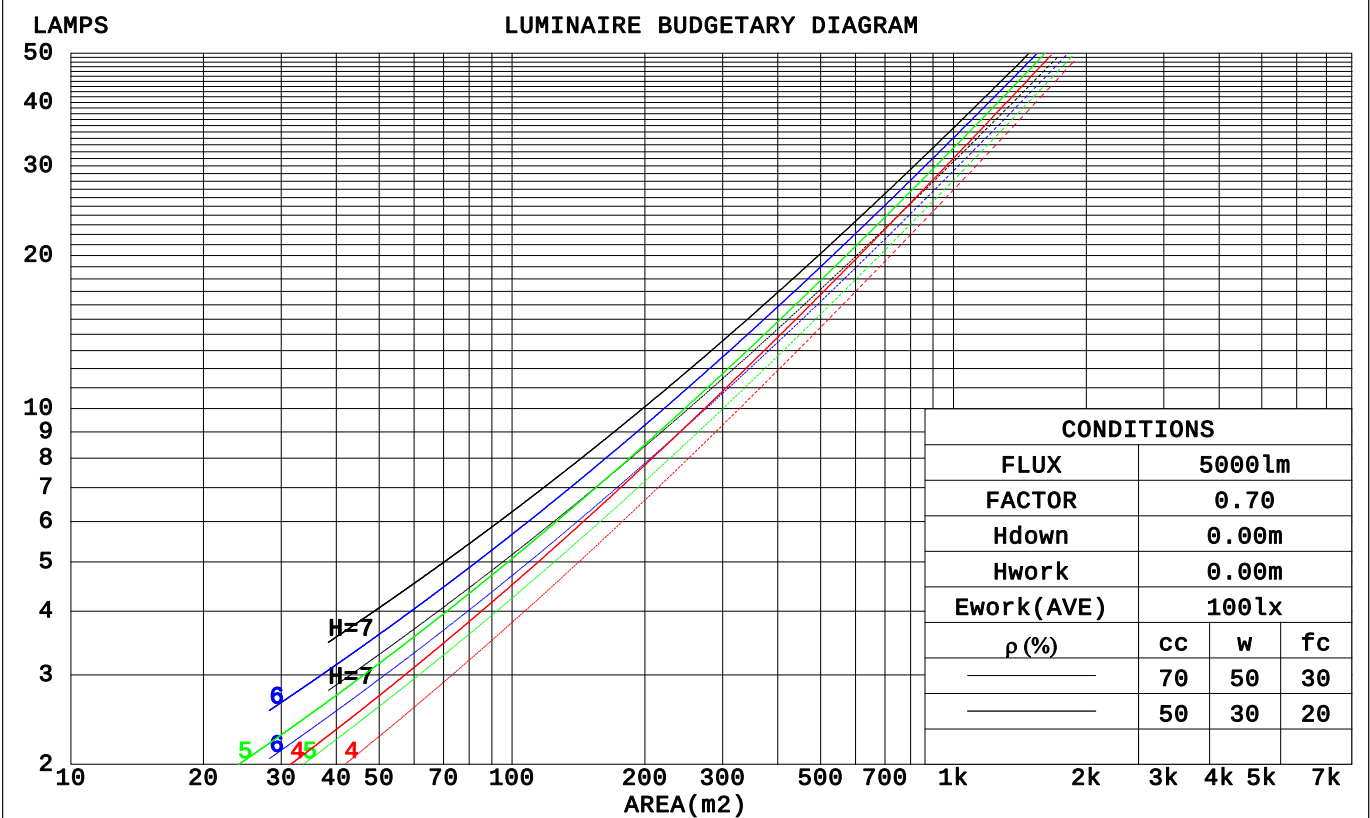
Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:															
Address:															
NAME: 52524BK								TYPE:				WEIGHT:			
SPECIFICATION:				CCT(K): 0				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															



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:2025年04月19日

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

WEC AND CCEC

Report number:

MANUFACTURER:											
Address:											
NAME: 52524BK						TYPE:			WEIGHT:		
SPECIFICATION:				CCT(K): 0		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	.262	.149	.047	.255	.145	.046	.241	.138	.044	.228	.132	.042	.217	.126	.040	
2.0	.252	.138	.042	.246	.135	.042	.234	.130	.040	.223	.125	.039	.213	.120	.038	
3.0	.238	.126	.038	.232	.124	.037	.221	.120	.036	.212	.116	.036	.203	.112	.035	
4.0	.222	.116	.034	.217	.114	.034	.208	.110	.033	.199	.107	.032	.191	.104	.032	
5.0	.208	.106	.031	.204	.104	.030	.195	.102	.030	.187	.099	.029	.180	.096	.029	
6.0	.195	.098	.028	.191	.096	.028	.183	.094	.027	.176	.092	.027	.170	.089	.027	
7.0	.183	.090	.026	.179	.089	.025	.172	.087	.025	.166	.085	.025	.160	.083	.024	
8.0	.172	.084	.024	.169	.083	.023	.163	.081	.023	.157	.080	.023	.152	.078	.023	
9.0	.162	.078	.022	.159	.078	.022	.154	.076	.022	.149	.074	.021	.144	.073	.021	
10.0	.153	.073	.020	.150	.073	.020	.146	.071	.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	.200	.200	.200	.171	.171	.171	.117	.117	.117	.067	.067	.067	.021	.021	.021	
1.0	.187	.166	.148	.160	.143	.127	.109	.098	.088	.063	.057	.051	.020	.018	.017	
2.0	.177	.142	.113	.151	.122	.097	.104	.085	.068	.060	.049	.040	.019	.016	.013	
3.0	.168	.124	.089	.144	.107	.077	.099	.074	.054	.057	.043	.032	.018	.014	.010	
4.0	.160	.110	.072	.137	.095	.063	.094	.066	.044	.055	.039	.026	.018	.013	.009	
5.0	.153	.100	.060	.131	.086	.053	.090	.060	.037	.052	.035	.022	.017	.012	.007	
6.0	.146	.091	.052	.125	.079	.045	.086	.055	.032	.050	.032	.019	.016	.011	.006	
7.0	.139	.084	.045	.120	.073	.040	.083	.051	.028	.048	.030	.017	.016	.010	.006	
8.0	.133	.078	.040	.115	.068	.035	.079	.048	.025	.046	.028	.015	.015	.009	.005	
9.0	.128	.073	.037	.110	.064	.032	.076	.045	.023	.044	.026	.014	.014	.009	.004	
10.0	.122	.069	.034	.105	.060	.029	.073	.042	.021	.043	.025	.012	.014	.008	.004	

Test System:HOPPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2025年04月19日

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

UGR Table

Report number:

MANUFACTURER:											
Address:											
NAME: 52524BK					TYPE:			WEIGHT:			
SPECIFICATION:		CCT(K): 0			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	2H	17.1	18.4	17.4	18.6	18.9	13.6	15.0	13.9	15.2	15.4
	3H	18.2	19.5	18.5	19.7	20.0	13.9	15.1	14.2	15.4	15.6
	4H	18.6	19.8	18.9	20.1	20.3	13.8	15.0	14.1	15.2	15.5
	6H	18.8	19.9	19.2	20.2	20.5	13.7	14.8	14.0	15.1	15.4
	8H	18.9	19.9	19.2	20.2	20.5	13.7	14.7	14.0	15.0	15.3
	12H	18.9	19.9	19.2	20.2	20.5	13.6	14.6	14.0	14.9	15.3
4H	2H	17.2	18.4	17.5	18.7	18.9	14.4	15.6	14.7	15.8	16.1
	3H	18.6	19.6	19.0	19.9	20.3	14.7	15.7	15.1	16.0	16.4
	4H	19.1	20.1	19.5	20.4	20.7	14.7	15.6	15.0	15.9	16.3
	6H	19.4	20.2	19.8	20.6	21.0	14.6	15.4	15.0	15.8	16.1
	8H	19.5	20.2	19.9	20.6	21.0	14.5	15.3	15.0	15.7	16.1
	12H	19.5	20.2	19.9	20.6	21.0	14.5	15.2	14.9	15.6	16.0
8H	4H	19.1	19.8	19.5	20.2	20.6	14.9	15.7	15.3	16.1	16.5
	6H	19.5	20.1	19.9	20.5	21.0	14.8	15.5	15.3	15.9	16.3
	8H	19.6	20.1	20.0	20.6	21.0	14.8	15.4	15.3	15.8	16.3
	12H	19.6	20.1	20.1	20.5	21.0	14.8	15.3	15.3	15.7	16.2
12H	4H	19.0	19.7	19.5	20.1	20.6	14.9	15.6	15.4	16.0	16.5
	6H	19.4	20.0	19.9	20.4	20.9	14.9	15.4	15.3	15.9	16.3
	8H	19.5	20.0	20.0	20.5	21.0	14.8	15.3	15.3	15.8	16.3
Variations with the observer position at spacings:											
S = 1.0H	+ 0.3 / - 0.3					+ 0.7 / - 1.1					
1.5H	+ 0.4 / - 0.7					+ 0.3 / - 0.7					
2.0H	+ 1.0 / - 1.4					+ 0.9 / - 1.4					

CIE Pub.117 Corrected 1202 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.6)

Test System:HOPPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2025年04月19日

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:										
Address:										
NAME: 52524BK					TYPE:			WEIGHT:		
SPECIFICATION:			CCT(K): 0		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) $k(RI) \times RCR = 5$									
$k = 0.60$	64	53	47	63	53	47	62	53	47	41
0.80	74	63	57	73	63	57	71	62	56	50
1.00	82	72	66	80	71	65	78	72	65	58
1.25	88	79	73	87	78	73	84	77	72	65
1.50	93	84	78	91	83	78	88	82	77	70
2.00	99	91	86	97	90	85	93	88	83	76
2.50	102	95	90	100	94	89	96	91	87	79
3.00	105	99	94	103	97	93	99	94	91	83
4.00	108	103	100	106	102	98	102	98	95	87
5.00	110	106	103	108	104	101	103	100	98	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 1.25		

Test System:HOPPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2025年04月19日

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:			
Address:			
NAME: 52524BK		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:

UNIT: cd

C(DEG) γ (DEG)		0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
0.0		628	626	622	623	619	617	618	615	616	613	614	611	614	612	614
5.0		624	617	614	618	605	596	598	589	591	584	587	584	589	585	594
10.0		611	599	595	603	578	564	564	551	553	543	550	543	553	552	563
15.0		586	572	565	578	540	523	520	506	506	497	504	498	508	508	522
20.0		556	536	526	545	497	477	473	456	458	446	454	448	462	461	477
25.0		517	492	483	505	449	425	422	403	405	397	401	396	410	408	430
30.0		472	447	435	461	396	389	368	345	347	332	344	335	353	352	376
35.0		425	399	387	415	345	317	300	291	293	279	290	282	297	300	325
40.0		377	346	336	360	295	264	262	237	243	227	239	230	250	247	275
45.0		325	297	287	312	244	217	213	191	194	181	190	184	200	201	225
50.0		277	249	240	264	201	174	170	150	152	140	149	143	159	160	183
55.0		230	203	197	216	159	134	132	113	116	104	114	107	123	121	144
60.0		186	162	156	174	124	100	99.5	82.0	85.7	74.0	83.3	76.8	90.5	89.3	110
65.0		144	124	118	134	90.5	71.4	69.8	52.9	53.6	43.7	50.3	47.0	60.5	62.3	78.3
70.0		105	85.5	83.6	94.3	62.5	43.0	40.0	24.6	26.1	17.2	23.9	18.9	31.6	31.5	49.5
75.0		68.9	52.3	52.3	59.5	34.0	16.7	16.4	6.20	9.30	3.10	8.00	4.00	11.0	9.00	21.9
80.0		36.0	24.2	25.5	29.6	10.2	1.80	5.30	0.40	4.40	0.30	4.20	0.60	4.60	0.60	5.80
85.0		12.8	4.00	6.70	6.80	4.90	0.10	4.60	0.80	3.90	0.40	3.90	0.40	4.00	0.10	4.40
90.0		5.50	0.60	4.90	1.00	4.50	0.50	3.90	0.50	3.80	0.10	3.60	0.40	3.90	0.40	3.90
95.0		4.80	0.60	4.20	1.40	4.20	0.30	4.10	0.70	3.10	0.60	3.40	0.40	3.50	0.50	3.90
100.0		4.60	0.60	4.00	1.30	4.00	0.40	3.40	0.20	3.10	0.30	3.00	0.50	3.40	0.60	3.20
105.0		4.30	0.70	4.00	1.30	3.80	0.50	3.50	0.80	2.80	0.70	3.40	0.40	3.30	0.70	3.60
110.0		4.20	1.00	3.50	1.60	3.50	0.80	3.20	0.60	2.80	0.90	3.30	0.80	3.00	0.90	3.20
115.0		4.10	1.30	3.60	2.00	3.80	0.80	3.10	0.80	2.70	0.80	3.10	0.70	2.90	0.80	3.20
120.0		4.10	1.40	3.60	2.10	3.40	1.30	3.20	1.00	2.90	0.80	3.20	1.10	2.60	1.30	3.50
125.0		4.00	1.70	3.40	2.40	3.70	1.30	3.20	1.30	2.90	1.30	3.00	1.10	3.00	1.30	3.20
130.0		4.00	1.70	3.70	2.20	3.70	1.40	3.30	1.30	2.90	0.90	3.00	1.10	2.70	1.00	3.00
135.0		4.00	2.00	3.40	2.20	3.50	1.60	3.50	1.40	3.10	1.40	3.00	1.70	3.30	1.80	3.30
140.0		3.90	1.70	3.50	2.80	3.60	1.80	3.20	1.50	3.10	1.50	3.20	1.30	3.20	1.30	3.20
145.0		4.20	2.10	3.70	3.10	3.40	1.80	3.20	1.70	3.40	2.00	3.30	1.80	3.50	1.80	3.30
150.0		4.30	2.10	4.10	2.80	3.80	2.00	3.10	2.10	3.40	2.10	3.30	2.10	3.10	2.10	3.40
155.0		4.10	2.60	3.60	3.20	3.80	1.80	3.60	1.90	3.10	1.80	3.00	2.00	3.30	1.90	3.50
160.0		4.20	2.40	3.80	3.20	3.70	2.40	3.40	1.90	3.70	2.10	3.40	2.30	3.70	2.30	3.60
165.0		4.10	2.40	3.70	3.70	3.80	2.40	3.60	2.70	3.50	2.40	3.40	2.30	3.40	2.20	3.30
170.0		4.20	3.40	3.80	3.40	3.80	2.50	3.40	2.40	3.50	2.60	3.50	2.60	3.50	2.50	3.50
175.0		4.10	2.70	3.50	3.80	3.60	2.60	3.70	2.40	3.50	2.90	3.70	2.30	3.60	2.50	3.70
180.0		4.10	3.10	3.20	3.80	3.90	3.20	3.50	2.70	3.40	2.70	3.50	2.90	3.10	2.60	3.50

Test System:HOPPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2025年04月19日

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:			
Address:			
NAME: 52524BK		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:

UNIT: cd

C(DEG) γ (DEG)	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290
0.0	612	611	611	628	626	622	623	619	617	618	615	616	613	614	611
5.0	592	600	600	620	622	621	617	624	624	624	624	624	625	623	622
10.0	564	577	579	604	610	609	603	614	616	615	617	616	619	616	618
15.0	526	543	549	577	587	585	578	589	594	590	594	592	595	592	596
20.0	483	503	511	541	556	551	545	554	560	552	559	550	559	551	561
25.0	432	459	467	502	517	512	506	511	515	506	511	503	511	504	515
30.0	391	408	420	456	470	467	460	461	463	452	458	451	458	453	461
35.0	330	361	387	406	425	416	413	406	409	396	405	397	404	396	408
40.0	280	303	320	354	375	363	365	349	356	339	351	336	350	338	354
45.0	233	262	272	305	303	311	303	297	298	285	294	282	292	285	298
50.0	189	217	226	254	273	259	264	245	251	233	243	229	242	231	246
55.0	148	176	181	209	226	212	219	198	204	187	196	184	196	185	200
60.0	112	137	143	166	179	168	174	156	160	146	153	143	152	144	156
65.0	80.5	100	105	123	139	127	133	117	123	109	116	103	114	105	119
70.0	49.9	67.2	68.3	85.2	98.9	88.7	94.7	84.3	89.0	72.7	77.7	65.8	74.5	67.5	81.0
75.0	23.5	38.8	37.9	51.0	61.9	55.5	57.9	50.8	52.6	40.7	44.2	35.7	42.0	37.2	47.0
80.0	3.70	14.5	14.0	21.5	31.9	25.9	28.7	20.8	24.2	14.8	19.6	12.5	18.7	13.4	21.9
85.0	0.30	5.00	0.80	2.90	10.0	4.50	8.60	2.90	7.40	1.80	6.60	2.00	6.90	1.90	7.70
90.0	0.00	4.30	0.60	1.20	5.00	0.60	5.10	0.70	4.50	0.40	4.40	0.40	4.30	0.40	4.20
95.0	0.70	3.70	0.20	0.90	4.60	0.50	4.90	0.60	4.00	0.00	3.80	0.60	4.20	0.40	4.10
100.0	0.70	3.90	0.50	1.50	4.20	0.90	4.20	0.60	3.90	0.30	3.40	0.10	3.60	0.40	3.50
105.0	0.80	3.70	0.70	1.10	4.30	0.90	4.20	1.00	3.60	0.50	3.40	0.10	3.70	0.50	3.20
110.0	1.00	3.70	1.00	1.70	4.30	1.00	4.00	1.20	3.40	0.90	3.10	0.40	3.50	0.40	3.60
115.0	1.40	3.40	0.70	1.90	3.60	1.20	4.00	1.30	3.20	1.10	3.20	0.80	3.20	0.60	3.00
120.0	1.10	3.40	1.50	2.30	4.00	1.20	4.40	1.20	3.30	0.90	3.40	0.80	3.10	0.70	3.00
125.0	1.10	3.40	1.20	2.50	4.00	1.30	4.20	1.80	3.30	0.80	3.00	0.60	3.20	0.80	3.00
130.0	1.50	3.70	1.50	2.50	4.00	1.40	3.90	1.70	3.40	1.30	3.30	1.20	3.20	0.80	3.00
135.0	1.60	3.40	2.00	2.70	3.70	1.90	3.80	1.40	2.90	1.40	3.00	1.30	3.00	1.30	3.20
140.0	1.90	3.50	1.90	2.60	3.90	1.90	3.80	1.90	3.50	1.60	3.20	1.50	3.30	1.40	3.40
145.0	1.40	3.80	2.10	2.70	3.70	1.90	3.90	2.10	3.30	1.70	3.10	2.40	2.90	1.20	3.20
150.0	1.80	3.60	2.30	2.70	3.60	2.00	3.80	2.10	2.90	1.70	3.50	1.80	3.30	2.00	3.10
155.0	2.00	3.40	2.20	3.40	3.90	2.30	4.10	2.30	3.50	1.90	3.70	2.20	3.60	2.00	3.20
160.0	2.30	3.60	2.20	3.10	4.00	2.50	4.00	2.50	3.60	2.30	3.40	2.00	3.20	2.00	3.30
165.0	2.20	3.60	2.50	3.80	3.90	2.50	4.10	2.90	3.70	2.50	3.40	2.60	3.50	2.10	3.50
170.0	2.40	4.00	2.30	3.40	4.00	2.70	4.00	2.70	3.80	2.40	3.30	2.60	3.50	2.50	3.70
175.0	2.50	3.90	2.60	3.70	3.90	2.90	4.10	3.20	3.40	2.60	3.30	2.40	3.20	2.60	3.60
180.0	2.70	3.60	2.40	4.40	3.40	2.60	3.90	3.20	3.60	2.70	3.50	2.60	3.50	2.70	3.30

Test System:HOPPO0 HPG1600
Temperature:25.3DEG
Operators:
Test Date:2025年04月19日

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:			
Address:			
NAME: 52524BK		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:

UNIT: cd

C(DEG) γ (DEG)	300	310	320	330	340	350
0.0	614	612	614	612	611	611
5.0	621	622	618	617	613	613
10.0	614	617	612	611	606	605
15.0	593	596	591	595	586	584
20.0	556	563	561	564	554	555
25.0	510	520	518	526	517	519
30.0	459	469	468	479	473	476
35.0	403	417	413	431	424	431
40.0	345	364	358	378	388	383
45.0	291	298	305	325	320	332
50.0	239	259	253	274	268	283
55.0	193	211	207	226	222	236
60.0	152	167	165	181	178	190
65.0	113	129	125	142	137	150
70.0	77.9	96.1	92.0	107	100	111
75.0	45.5	59.3	59.7	72.3	66.5	73.6
80.0	19.0	30.5	28.0	40.7	36.0	42.2
85.0	3.30	10.2	6.70	15.2	10.5	17.4
90.0	0.50	4.60	0.30	4.70	0.10	4.40
95.0	0.10	4.00	0.80	4.30	0.10	4.50
100.0	0.40	3.80	0.70	3.90	0.50	4.00
105.0	0.70	3.70	0.70	3.80	1.00	3.60
110.0	0.60	3.50	0.50	3.60	0.50	3.80
115.0	0.50	3.60	0.70	3.50	0.70	3.60
120.0	1.00	3.30	0.70	3.50	0.70	3.60
125.0	1.10	3.20	0.90	3.60	1.50	3.70
130.0	1.40	3.10	1.20	3.10	1.10	3.70
135.0	1.70	2.90	1.40	3.20	1.60	3.50
140.0	1.60	3.00	1.60	3.60	1.70	3.50
145.0	1.60	3.00	1.60	3.10	1.80	3.50
150.0	2.10	3.50	1.70	3.60	2.20	3.60
155.0	1.90	3.50	1.90	3.50	2.20	3.60
160.0	2.40	3.60	2.00	3.60	2.30	3.90
165.0	2.20	3.60	2.70	3.60	2.10	3.70
170.0	2.20	3.70	2.60	3.50	2.40	3.80
175.0	2.30	3.60	2.70	3.40	2.50	3.90
180.0	2.50	3.20	2.70	3.40	2.60	3.70

Test System:HOPPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2025年04月19日

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks: