

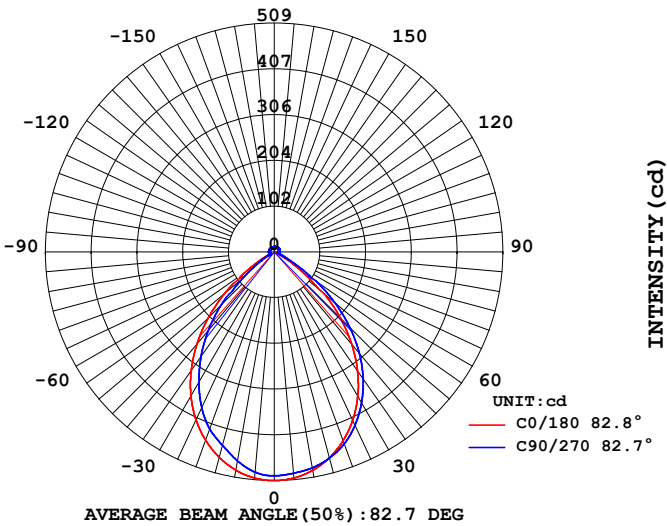
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

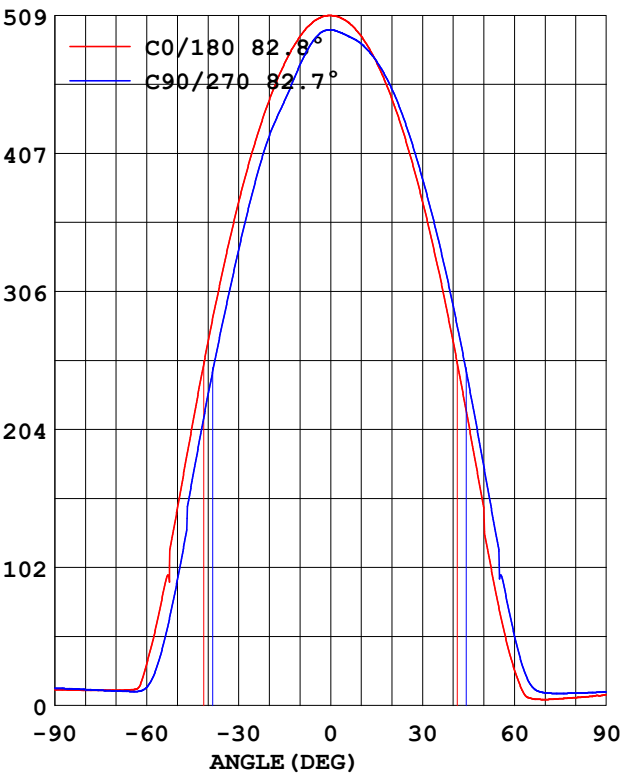
MANUFACTURER: Havit					
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036					
NAME: HCP-3225483			TYPE:		WEIGHT:
SPECIFICATION:	CCT (K) : 1000980		DIMENSION:		SERIAL No.:

DATA OF LAMP		Imax (cd)	509.1	S/MH (C0/180)	1.11
MODEL	24V-2835-180D-3000K-4.8W	EFFICIENCY (%)	100.0	S/MH (C90/270)	1.05
NOMINAL POWER (W)	4.8	TOTAL FLUX (lm)	896.8	Voltage (V)	24.03
RATED VOLTAGE (V)	24	EFFICIENCY (lm/W)	186.8	Current (A)	0.235
NOMINAL FLUX (lm)	896.8	η up (%)	8.3	Power (W)	4.800
LAMPS QUANTITY	1	η down (%)	91.7	Power Factor (PF)	1.000
TEST VOLTAGE (V)	24.0	Effective Flux (lm)	781.6	EEI	0.076

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023年08月12日

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-3000K-4.8W

Color Temperature Data List

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225483		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 1000980	DIMENSION:	SERIAL No. :

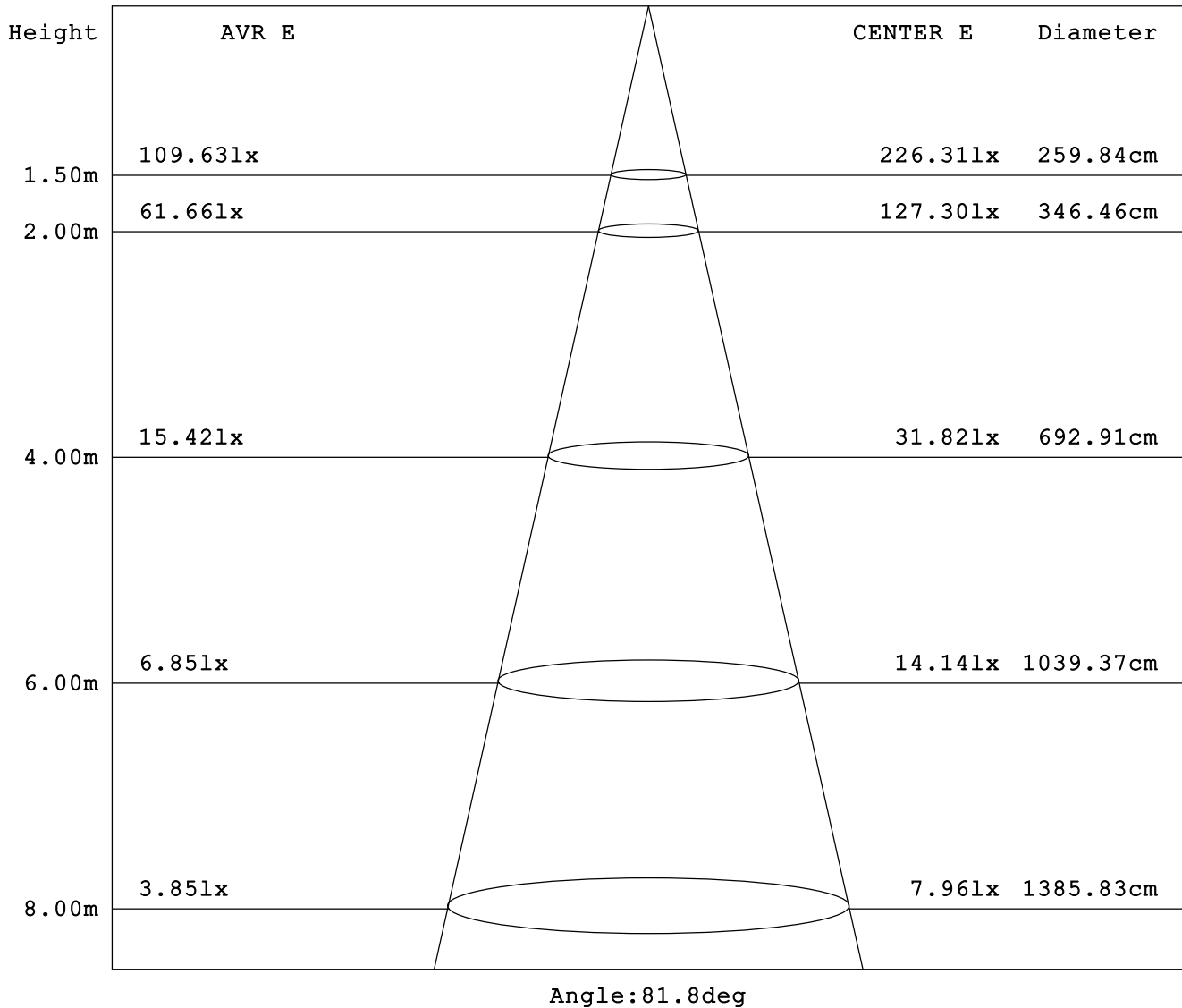
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023年08月12日

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-3000K-4.8W

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville, NSW2036			
NAME: HCP-3225483		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 1000980	DIMENSION:	SERIAL No. :



Test System: HOPOO HP880
Temperature: 25.3DEG
Operators:
Test Date: 2023年08月12日

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 6.370 m
Remarks: 24V-2835-180D-3000K-4.8W

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225483		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 1000980	DIMENSION:	SERIAL No. :

γ	C0	C90	C180	C270					γ	Zone	total
5.0	505.5	492.4	505.4	494.7					0- 5	11.51	11.51
10.0	494.0	473.4	494.4	488.5					5- 10	33.91	45.43
15.0	474.9	447.5	476.0	476.4					10- 15	54.47	99.91
20.0	448.8	422.5	450.3	457.0					15- 20	72.33	172.2
25.0	416.1	386.7	417.3	429.2					20- 25	86.45	258.7
30.0	376.5	341.9	377.3	393.7					25- 30	95.52	354.2
35.0	329.8	291.8	330.7	351.9					30- 35	98.97	453.2
40.0	277.0	237.9	277.8	303.7					35- 40	96.44	549.6
45.0	218.8	179.1	219.7	249.1					40- 45	87.58	637.2
50.0	157.3	103.8	158.4	189.1					45- 50	71.87	709.1
55.0	90.52	50.84	83.75	127.2					50- 55	49.71	758.8
60.0	40.69	17.04	35.46	64.15					55- 60	27.49	786.3
65.0	11.92	10.30	7.019	22.60					60- 65	11.18	797.5
70.0	11.23	10.63	4.463	9.941					65- 70	5.057	802.5
75.0	11.11	11.03	4.828	8.926					70- 75	4.534	807.1
80.0	11.23	11.64	5.559	9.008					75- 80	4.772	811.8
85.0	11.44	12.17	6.411	9.373					80- 85	5.090	816.9
90.0	11.72	12.61	7.303	9.860					85- 90	5.425	822.3
95.0	11.97	12.90	8.399	10.42					90- 95	5.741	828.1
100.0	12.17	12.82	9.089	10.54					95-100	5.918	834.0
105.0	12.33	12.21	9.738	10.54					100-105	5.909	839.9
110.0	12.45	11.76	10.30	10.83					105-110	5.834	845.7
115.0	12.49	11.60	10.83	11.40					110-115	5.788	851.5
120.0	12.41	11.40	11.23	11.52					115-120	5.651	857.2
125.0	12.29	11.23	11.60	11.60					120-125	5.428	862.6
130.0	12.13	11.72	11.88	11.72					125-130	5.184	867.8
135.0	12.05	11.80	12.05	11.80					130-135	4.912	872.7
140.0	11.97	11.76	11.97	11.76					135-140	4.541	877.3
145.0	11.92	11.72	11.92	11.72					140-145	4.123	881.4
150.0	11.88	11.68	11.88	11.68					145-150	3.680	885.1
155.0	11.84	11.64	11.84	11.64					150-155	3.214	888.3
160.0	11.80	11.60	11.80	11.60					155-160	2.729	891.0
165.0	11.76	11.60	11.76	11.60					160-165	2.227	893.2
170.0	11.72	11.56	11.72	11.56					165-170	1.712	894.9
175.0	11.72	11.52	11.72	11.52					170-175	1.188	896.1
180.0	11.68	11.52	11.68	11.52					175-180	0.658	896.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023年08月12日

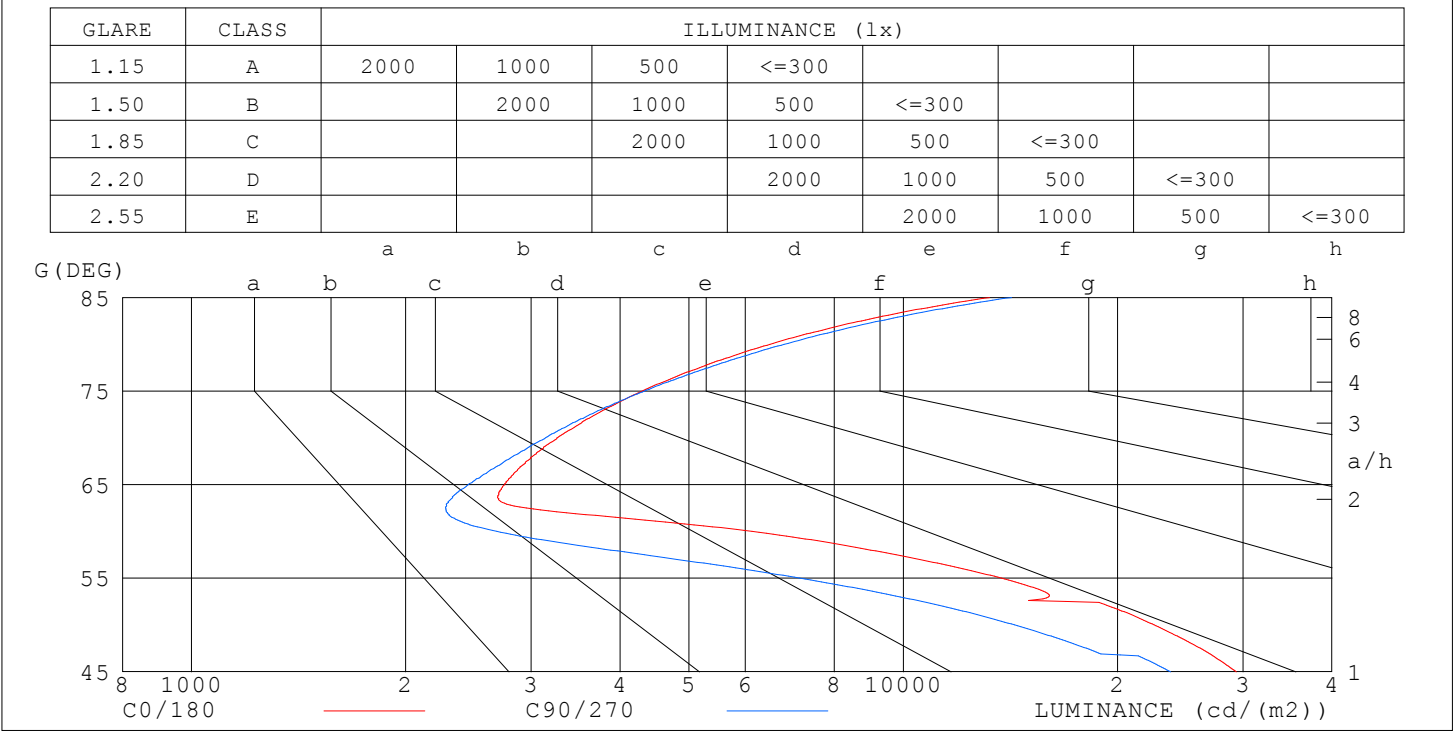
Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-3000K-4.8W

LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225483		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 1000980	DIMENSION:	SERIAL No.:

LUMINANCE LIMITATION CURVES



LUMINANCE cd/m2		
G (DEG)	C0/180	C90/270
85	13222	14153
80	6496	6800
75	4296	4327
70	3274	3144
65	2756	2448
60	6289	2727
55	13929	7301
50	22700	14513
45	29547	23918

Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023年08月12日

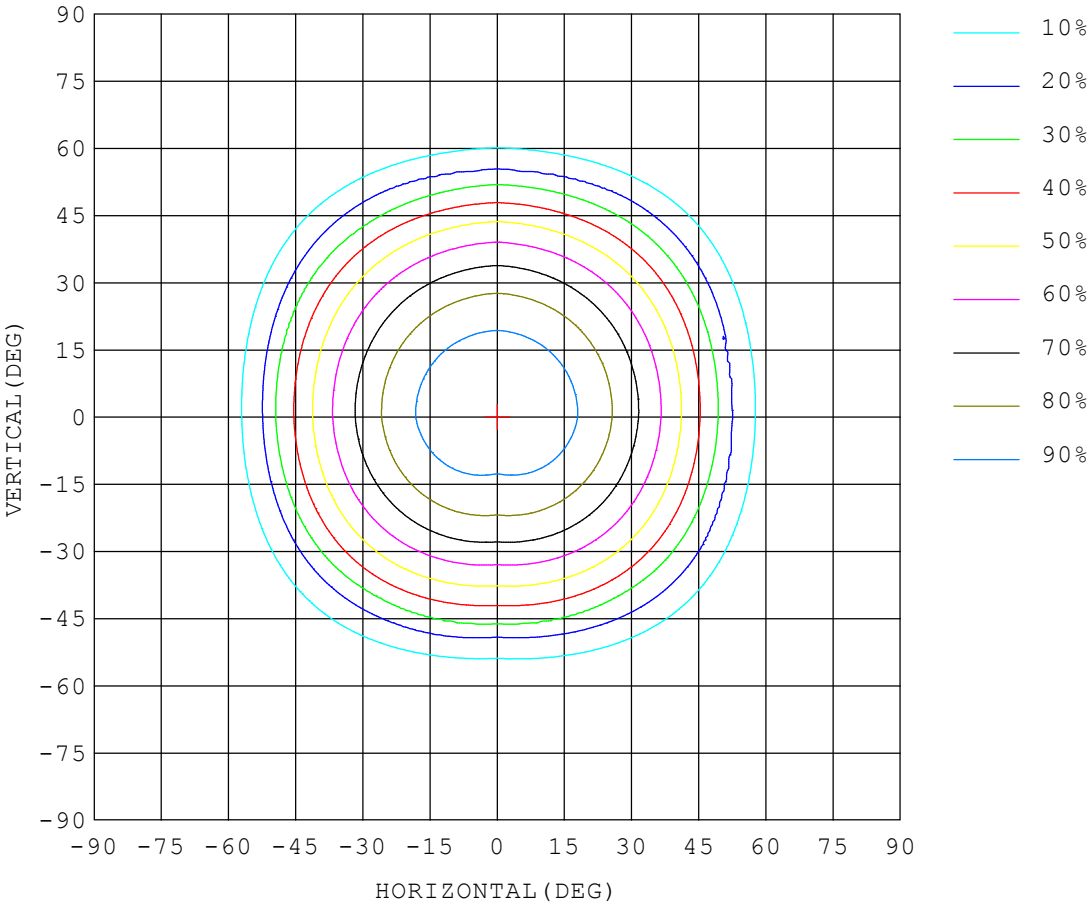
Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-3000K-4.8W

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225483		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 1000980	DIMENSION:	SERIAL No.:

UNIT: cd



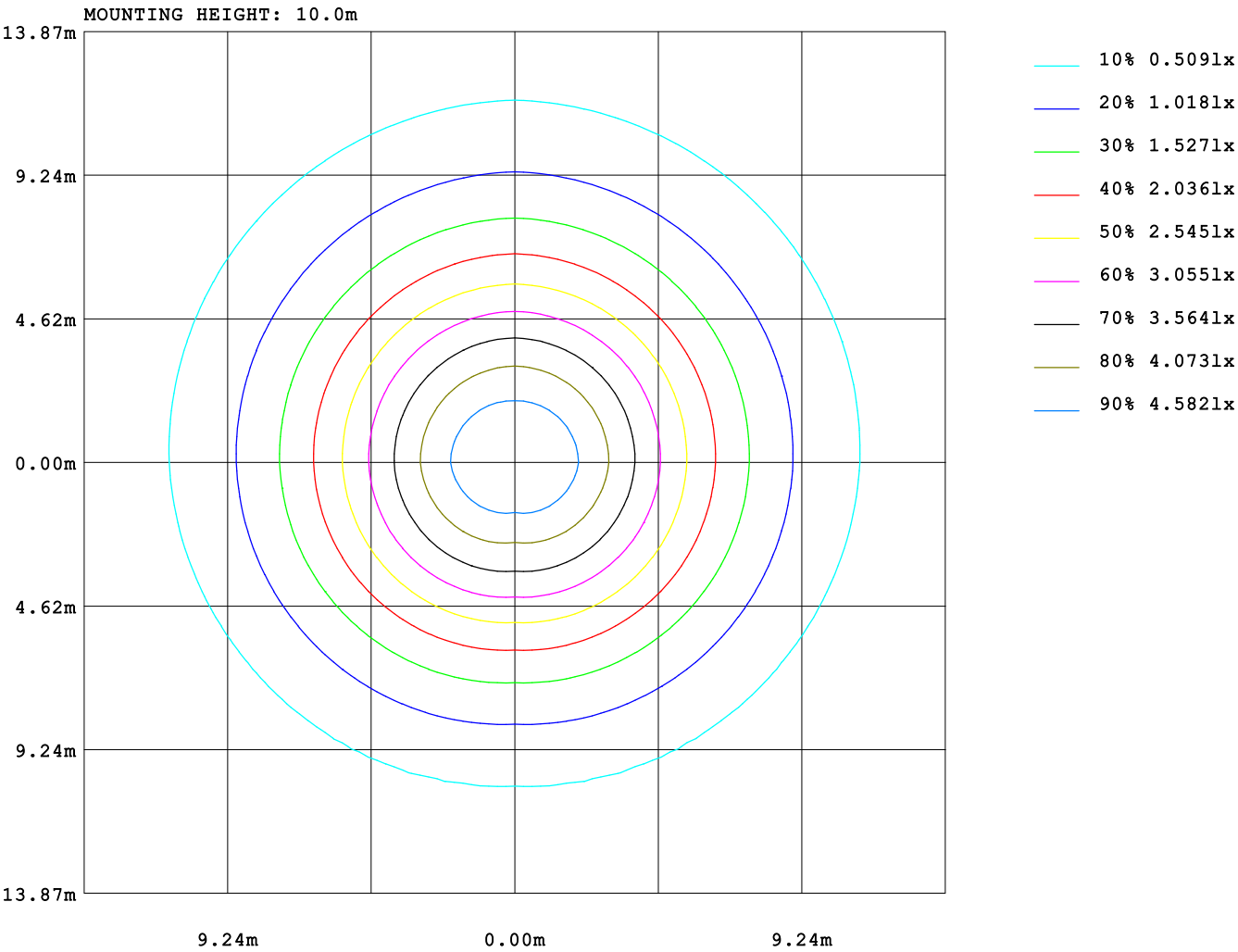
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023年08月12日

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-3000K-4.8W

ISOLUX DIAGRAM

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225483		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 1000980	DIMENSION:	SERIAL No. :



Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023年08月12日

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-3000K-4.8W

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number:

MANUFACTURER: Havit																			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036																			
NAME: HCP-3225483										TYPE:					WEIGHT:				
SPECIFICATION:					CCT (K) : 1000980					DIMENSION:					SERIAL No.:				

90	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.02	0.06	0.10	0.14	0.18	0.21	0.24	0.27	0.28	0.29	0.29	0.28	0.26	0.23	0.19	0.14	0.09	0.03	3.32	0.00		
80	0.02	0.06	0.09	0.13	0.16	0.19	0.22	0.24	0.27	0.28	0.28	0.27	0.25	0.22	0.18	0.14	0.09	0.03	3.10	0.00		
70	0.02	0.05	0.09	0.11	0.15	0.19	0.30	0.46	0.61	0.62	0.49	0.35	0.26	0.22	0.18	0.14	0.09	0.03	4.36	0.00		
60	0.02	0.05	0.08	0.11	0.22	0.71	1.59	2.56	3.22	3.24	2.59	1.64	0.76	0.30	0.19	0.14	0.09	0.03	17.5	13.9		
50	0.02	0.05	0.07	0.16	0.84	2.41	4.41	6.06	7.02	7.02	6.07	4.45	2.50	0.89	0.23	0.14	0.09	0.03	42.4	40.6		
40	0.02	0.05	0.07	0.41	1.96	4.58	7.13	9.12	10.2	10.2	9.11	7.12	4.61	2.06	0.46	0.14	0.09	0.03	67.4	66.2		
30	0.02	0.04	0.08	0.80	3.16	6.31	9.22	11.4	12.6	12.6	11.4	9.20	6.29	3.23	0.87	0.15	0.09	0.03	87.7	86.8		
VERTICAL (DEG)	0.02	0.04	0.10	1.14	4.04	7.45	10.6	13.0	14.2	14.2	12.9	10.6	7.43	4.07	1.23	0.17	0.09	0.03	102	101		
	0.02	0.04	0.12	1.31	4.47	8.00	11.2	13.7	15.0	15.0	13.7	11.2	7.97	4.45	1.43	0.18	0.09	0.03	108	107		
	0.02	0.04	0.12	1.27	4.38	7.88	11.1	13.6	14.8	14.8	13.5	11.1	7.85	4.36	1.38	0.18	0.09	0.03	107	106		
	0.02	0.04	0.10	1.02	3.77	7.09	10.1	12.4	13.5	13.5	12.4	10.1	7.07	3.80	1.11	0.16	0.09	0.03	96.6	95.7		
-30	0.02	0.04	0.08	0.64	2.72	5.71	8.43	10.4	11.5	11.5	10.4	8.42	5.70	2.79	0.71	0.15	0.09	0.03	79.5	78.4		
-40	0.02	0.05	0.07	0.29	1.46	3.72	6.06	7.76	8.57	8.57	7.75	6.05	3.74	1.56	0.35	0.14	0.09	0.03	56.3	54.8		
-50	0.02	0.05	0.08	0.13	0.52	1.55	3.01	4.30	4.93	4.93	4.31	3.05	1.63	0.57	0.20	0.14	0.09	0.03	29.5	27.2		
-60	0.02	0.05	0.09	0.12	0.17	0.37	0.75	1.16	1.37	1.38	1.19	0.80	0.42	0.24	0.19	0.14	0.09	0.03	8.60	3.29		
-70	0.02	0.06	0.09	0.13	0.16	0.20	0.25	0.29	0.32	0.33	0.32	0.30	0.27	0.24	0.20	0.15	0.09	0.03	3.45	0.00		
-80	0.02	0.06	0.10	0.15	0.19	0.23	0.27	0.30	0.33	0.34	0.33	0.31	0.28	0.25	0.20	0.15	0.09	0.03	3.63	0.00		
-90	0.02	0.07	0.11	0.16	0.21	0.26	0.30	0.34	0.36	0.37	0.36	0.34	0.30	0.26	0.21	0.15	0.09	0.03	3.94	0.00		
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL (DEG) 20 30 40 50 60 70 80 90																						
Φ t	0.34	0.91	1.64	8.22	28.7	57.1	85.4	108	119	119	108	85.7	57.6	29.7	9.53	2.70	1.59	0.55	897			
Φ a	0.00	0.00	0.00	4.72	26.1	54.5	82.8	105	117	117	105	82.8	54.7	26.5	5.49	0.00	0.00	0.00		782		

Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023年08月12日

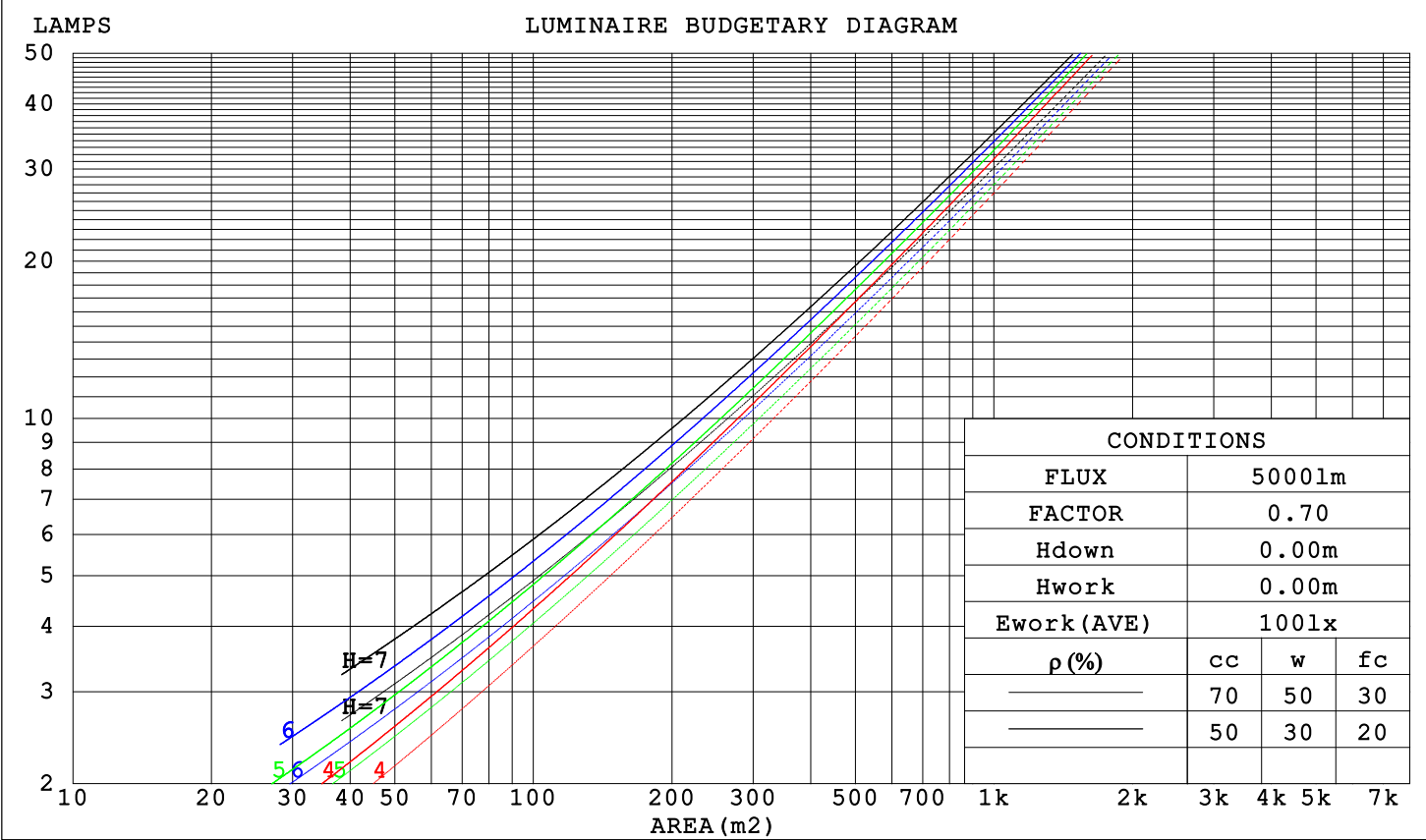
Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-3000K-4.8W

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: Havit															
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036															
NAME: HCP-3225483								TYPE:				WEIGHT:			
SPECIFICATION:				CCT (K) : 1000980				DIMENSION:				SERIAL No.:			

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	1.00	1.00	1.00	.94	.94	.94	.92
1.0	1.06	1.02	.00	1.03	.00	.97	.97	.95	.93	.92	.90	.88	.87	.86	.84	.82
2.0	.96	.90	.86	.93	.88	.84	.88	.84	.81	.84	.81	.78	.80	.77	.75	.73
3.0	.86	.80	.75	.84	.78	.74	.80	.75	.71	.77	.73	.69	.73	.70	.67	.65
4.0	.78	.71	.66	.77	.70	.65	.73	.68	.63	.70	.66	.62	.67	.63	.60	.58
5.0	.71	.64	.59	.70	.63	.58	.67	.61	.57	.64	.59	.55	.62	.58	.54	.52
6.0	.65	.58	.52	.64	.57	.52	.62	.55	.51	.59	.54	.50	.57	.52	.49	.47
7.0	.60	.53	.47	.59	.52	.47	.57	.51	.46	.55	.49	.45	.53	.48	.44	.43
8.0	.55	.48	.43	.54	.47	.43	.52	.46	.42	.51	.45	.41	.49	.44	.40	.39
9.0	.51	.44	.39	.50	.43	.39	.49	.43	.38	.47	.42	.38	.46	.41	.37	.35
10.0	.48	.41	.36	.47	.40	.36	.45	.39	.35	.44	.38	.35	.43	.38	.34	.32



Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023年08月12日

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-3000K-4.8W

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER: Havit															
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036															
NAME: HCP-3225483								TYPE:				WEIGHT:			
SPECIFICATION:				CCT (K) : 1000980				DIMENSION:				SERIAL No.:			

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pf _c	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.235	.134	.042	.226	.129	.041	.208	.120	.038	.192	.111	.036	.177	.103	.033	
2.0	.224	.123	.038	.215	.119	.037	.200	.111	.035	.186	.104	.033	.173	.098	.031	
3.0	.212	.113	.034	.204	.109	.033	.191	.103	.031	.178	.097	.030	.166	.092	.028	
4.0	.200	.104	.031	.193	.101	.030	.181	.096	.029	.170	.091	.027	.159	.086	.026	
5.0	.189	.096	.028	.183	.094	.027	.172	.089	.026	.162	.085	.025	.152	.081	.024	
6.0	.178	.089	.026	.173	.087	.025	.163	.084	.024	.154	.080	.023	.145	.076	.023	
7.0	.169	.083	.024	.164	.082	.023	.155	.078	.023	.146	.075	.022	.138	.072	.021	
8.0	.160	.078	.022	.156	.077	.022	.147	.074	.021	.139	.071	.020	.132	.068	.020	
9.0	.152	.073	.020	.148	.072	.020	.140	.069	.020	.133	.067	.019	.126	.064	.019	
10.0	.144	.069	.019	.140	.068	.019	.134	.065	.018	.127	.063	.018	.121	.061	.017	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pf _c	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.254	.254	.254	.217	.217	.217	.148	.148	.148	.085	.085	.085	.027	.027	.027	
1.0	.239	.221	.204	.204	.189	.176	.140	.130	.121	.080	.075	.071	.026	.024	.023	
2.0	.227	.196	.170	.195	.169	.147	.133	.117	.103	.077	.068	.060	.025	.022	.020	
3.0	.218	.178	.147	.187	.154	.128	.128	.107	.089	.074	.062	.053	.024	.020	.017	
4.0	.210	.165	.130	.180	.142	.113	.124	.099	.080	.072	.058	.047	.023	.019	.016	
5.0	.202	.154	.118	.174	.133	.103	.120	.093	.073	.069	.055	.043	.022	.018	.014	
6.0	.196	.145	.109	.168	.126	.095	.116	.088	.067	.067	.052	.040	.022	.017	.013	
7.0	.189	.138	.103	.163	.120	.090	.113	.084	.063	.065	.050	.038	.021	.016	.012	
8.0	.184	.133	.098	.158	.115	.085	.110	.081	.060	.064	.048	.036	.021	.016	.012	
9.0	.179	.128	.093	.154	.111	.082	.107	.078	.058	.062	.046	.035	.020	.015	.011	
10.0	.174	.124	.090	.150	.107	.079	.104	.076	.056	.061	.045	.033	.020	.015	.011	

Test System:HOPOO HP880
 Temperature:25.3DEG
 Operators:
 Test Date:2023年08月12日

Test Set: 6.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.370 m
 Remarks: 24V-2835-180D-3000K-4.8W

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR Table

Report number:

MANUFACTURER: Havit											
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036											
NAME: HCP-3225483					TYPE:			WEIGHT:			
SPECIFICATION:		CCT(K): 1000980			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	20.4	21.6	20.8	21.9	22.2	19.3	20.5	19.7	20.8	21.1	
3H	20.3	21.4	20.7	21.7	22.1	19.2	20.3	19.6	20.6	21.0	
4H	20.3	21.3	20.7	21.7	22.1	19.2	20.2	19.7	20.6	21.0	
6H	20.4	21.3	20.9	21.7	22.2	19.5	20.4	19.9	20.8	21.2	
8H	20.6	21.5	21.0	21.9	22.3	19.7	20.6	20.1	21.0	21.4	
12H	20.8	21.7	21.3	22.1	22.5	20.1	20.9	20.5	21.3	21.8	
4H	2H	20.2	21.2	20.6	21.5	21.9	19.1	20.1	19.5	20.5	20.9
	3H	20.1	21.0	20.6	21.4	21.8	19.1	19.9	19.5	20.3	20.8
	4H	20.2	21.0	20.7	21.4	21.9	19.2	20.0	19.7	20.4	20.9
	6H	20.5	21.1	21.0	21.6	22.1	19.6	20.3	20.1	20.8	21.3
	8H	20.7	21.4	21.3	21.9	22.4	20.0	20.7	20.6	21.2	21.7
12H	21.2	21.8	21.7	22.3	22.8	20.7	21.2	21.2	21.7	22.3	
8H	4H	20.2	20.8	20.7	21.3	21.8	19.2	19.8	19.8	20.3	20.9
	6H	20.6	21.1	21.2	21.6	22.2	19.9	20.4	20.4	20.9	21.5
	8H	21.1	21.5	21.6	22.1	22.7	20.5	20.9	21.0	21.5	22.1
	12H	21.8	22.1	22.4	22.7	23.4	21.4	21.8	22.0	22.4	23.0
12H	4H	20.1	20.7	20.7	21.2	21.8	19.2	19.8	19.8	20.3	20.9
	6H	20.7	21.1	21.3	21.7	22.3	20.0	20.4	20.5	21.0	21.6
	8H	21.2	21.6	21.8	22.2	22.8	20.7	21.1	21.3	21.6	22.3
Variations with the observer position at spacings:											
S = 1.0H	+ 1.2 / - 1.6					+ 1.3 / - 1.9					
1.5H	+ 0.9 / - 1.9					+ 1.1 / - 1.7					
2.0H	+ 3.2 / - 2.9					+ 3.1 / - 2.0					

CIE Pub.117 Corrected 896.8 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.4)

Test System: HOPOO HP880
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2023年08月12日

Test Set: 6.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 6.370 m
 Remarks: 24V-2835-180D-3000K-4.8W

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville, NSW2036			
NAME: HCP-3225483		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 1000980	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) $k(RI) \times RCR = 5$									
$k = 0.60$	67	57	52	66	57	51	64	56	51	46
0.80	77	67	61	75	67	61	73	66	60	55
1.00	84	76	70	83	75	69	80	75	68	62
1.25	90	82	77	89	81	76	86	79	75	68
1.50	94	87	82	92	86	81	89	83	79	72
2.00	100	93	88	97	91	87	93	88	85	77
2.50	102	96	92	100	94	90	95	91	87	79
3.00	105	99	95	102	97	93	97	93	90	81
4.00	107	103	99	105	101	97	99	96	94	83
5.00	109	105	102	106	103	100	100	98	95	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 1.25		

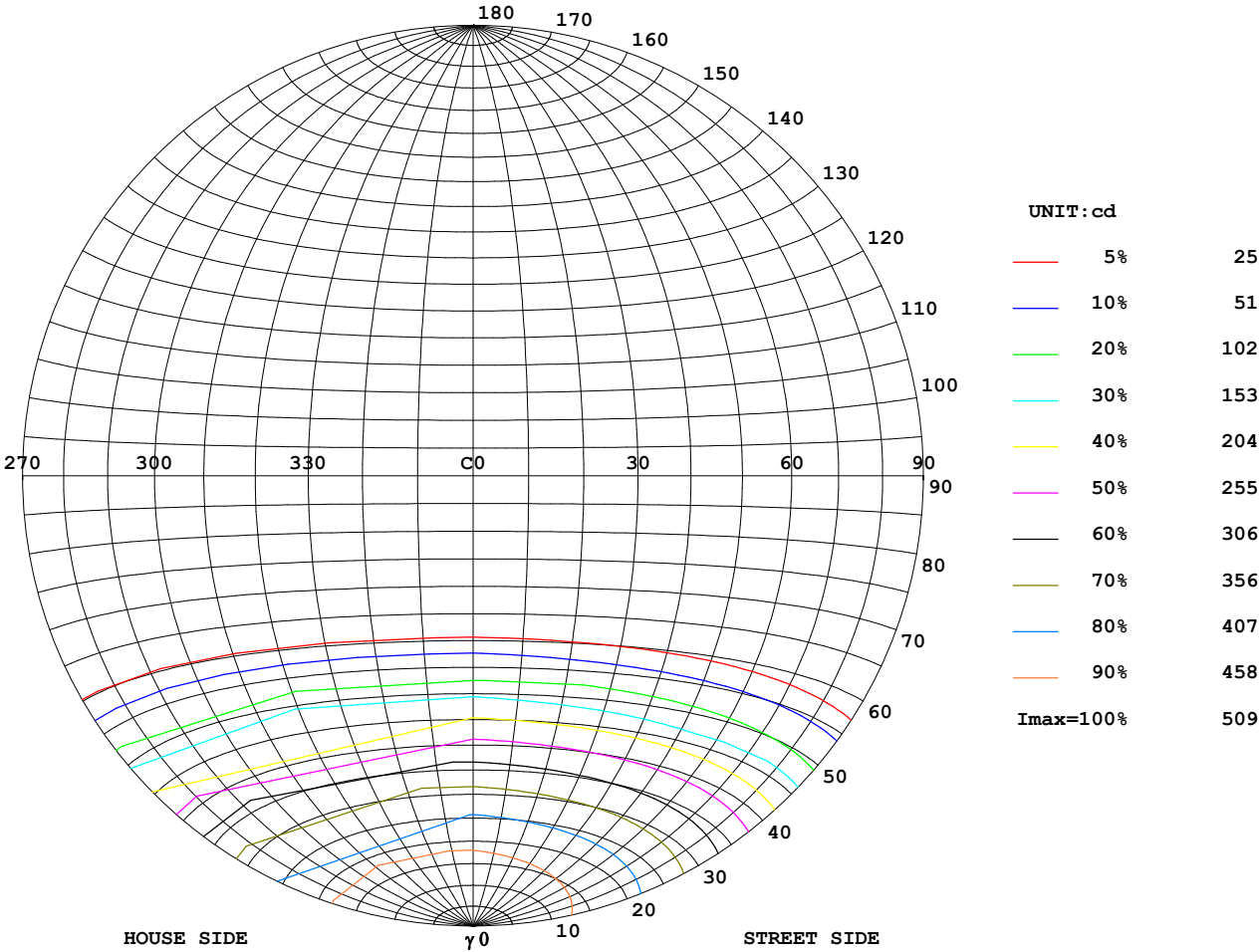
Test System: HOPOO HP880
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2023年08月12日

Test Set: 6.0 deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 6.370 m
 Remarks: 24V-2835-180D-3000K-4.8W

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225483		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 1000980	DIMENSION:	SERIAL No.:



Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023年08月12日

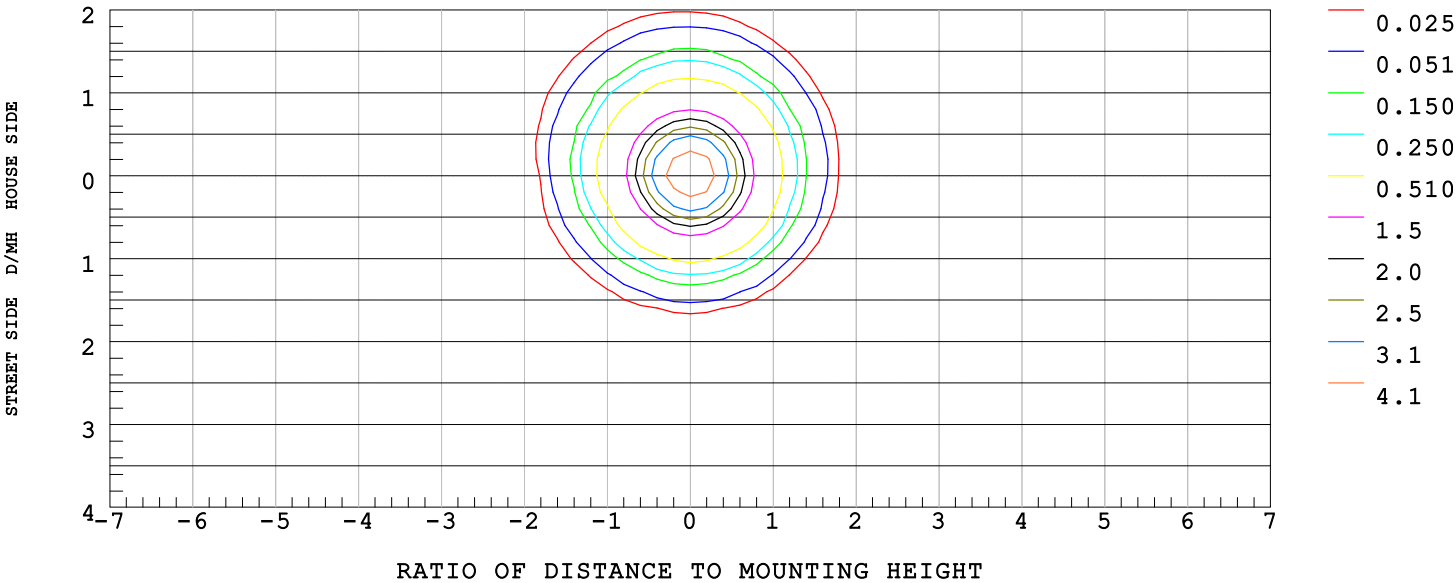
Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-3000K-4.8W

ISOLUX DIAGRAM

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225483		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 1000980	DIMENSION:	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 5.09 lx



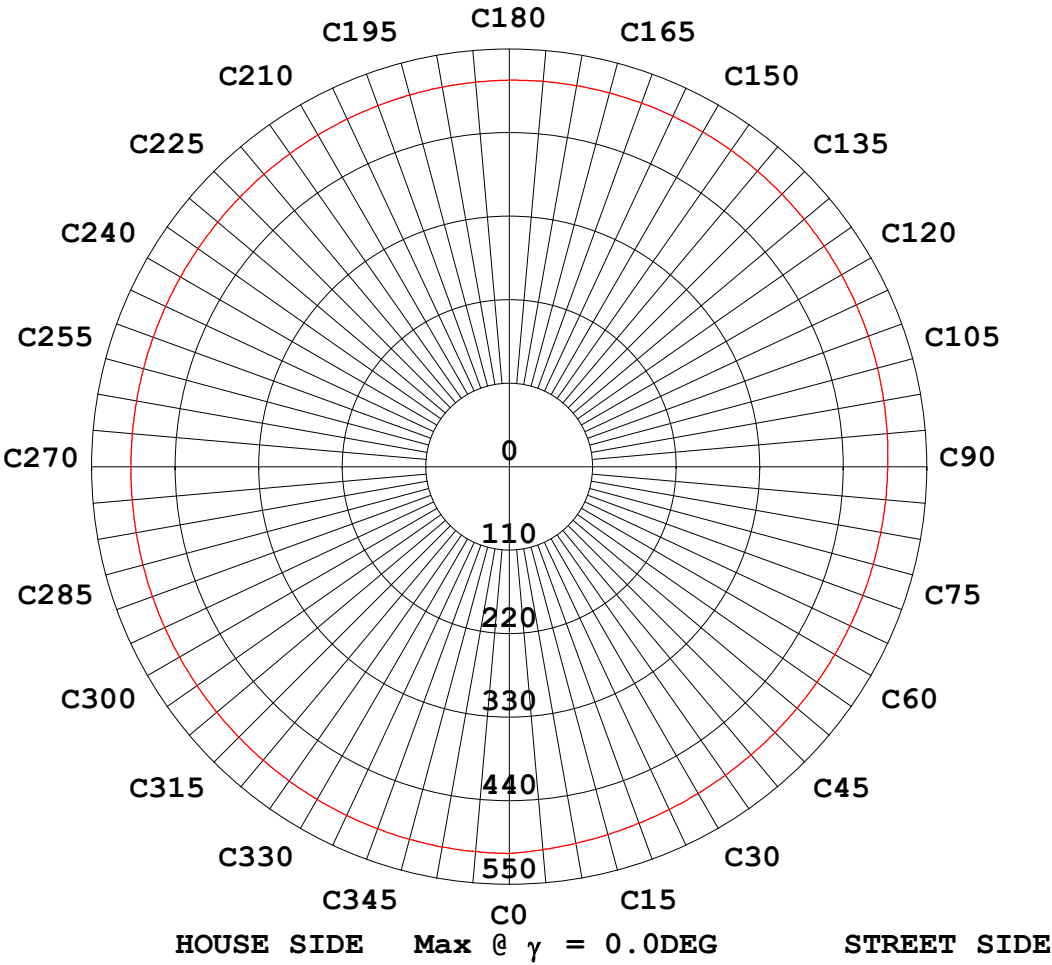
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023年08月12日

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-3000K-4.8W

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225483		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 1000980	DIMENSION:	SERIAL No.:



Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023年08月12日

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-3000K-4.8W

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225483		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 1000980	DIMENSION:	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270
0.0	509	498	509	498
5.0	506	492	505	495
10.0	494	473	494	488
15.0	474	446	475	476
20.0	447	421	449	456
25.0	413	383	414	427
30.0	372	337	373	390
35.0	324	286	325	346
40.0	269	230	270	296
45.0	209	169	210	240
50.0	146	93.2	147	178
55.0	79.8	41.8	72.6	115
60.0	31.4	13.6	27.3	52.9
65.0	11.6	10.3	5.64	16.8
70.0	11.1	10.7	4.30	9.37
75.0	11.1	11.1	5.03	8.92
80.0	11.2	11.8	5.80	9.08
85.0	11.5	12.3	6.69	9.49
90.0	11.8	12.7	7.91	10.0
95.0	12.0	12.9	8.64	10.5
100.0	12.2	12.6	9.37	10.5
105.0	12.3	11.9	9.98	10.6
110.0	12.4	11.6	10.5	11.1
115.0	12.4	11.5	11.0	11.4
120.0	12.3	11.3	11.4	11.5
125.0	12.2	11.6	11.7	11.6
130.0	12.0	11.8	12.0	11.8
135.0	12.0	11.8	12.0	11.8
140.0	11.9	11.7	11.9	11.7
145.0	11.9	11.7	11.9	11.7
150.0	11.8	11.6	11.8	11.6
155.0	11.8	11.6	11.8	11.6
160.0	11.8	11.6	11.8	11.6
165.0	11.7	11.5	11.7	11.5
170.0	11.7	11.5	11.7	11.5
175.0	11.7	11.5	11.7	11.5
180.0	11.6	11.4	11.6	11.4

Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023年08月12日

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-3000K-4.8W