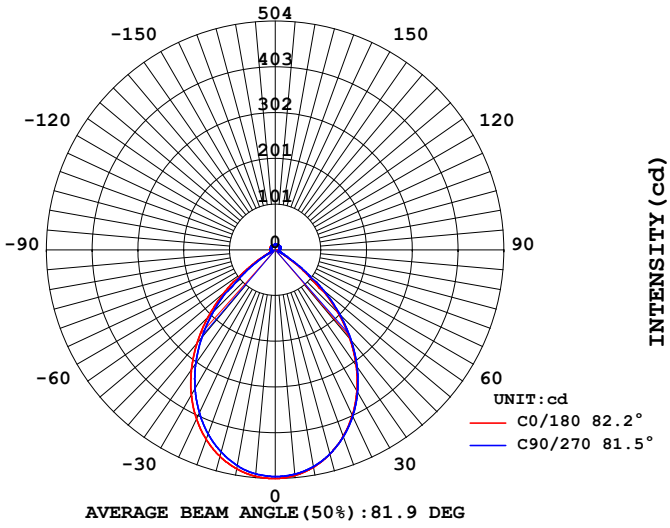
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225482		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.:

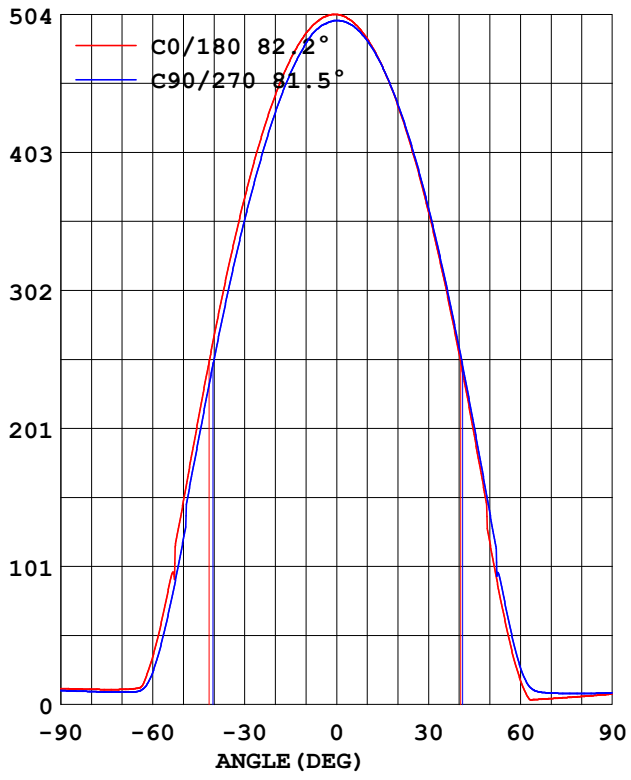
DATA OF LAMP		Imax(cd)	503.5	S/MH(C0/180)	1.11
MODEL	24V-2835-180D-2700K	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.09
NOMINAL POWER(W)	4.8	TOTAL FLUX(lm)	875.6	Voltage(V)	23.98
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	182.4	Current(A)	0.234
NOMINAL FLUX(lm)	875.6	η up(%)	8.3	Power(W)	4.800
LAMPS QUANTITY	1	η down(%)	91.7	Power Factor(PF)	1.000
TEST VOLTAGE(V)	24.0	Effictive Flux(lm)	764.8	EEI	0.078

LUMINOUS INTENSITY DISTRIBUTION



AVERAGE BEAM ANGLE(50%):81.9 DEG

LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:08-12-2023

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-2700K-4.8W

Color Temperature Data List

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AVERAGE AND CENTER E Figure

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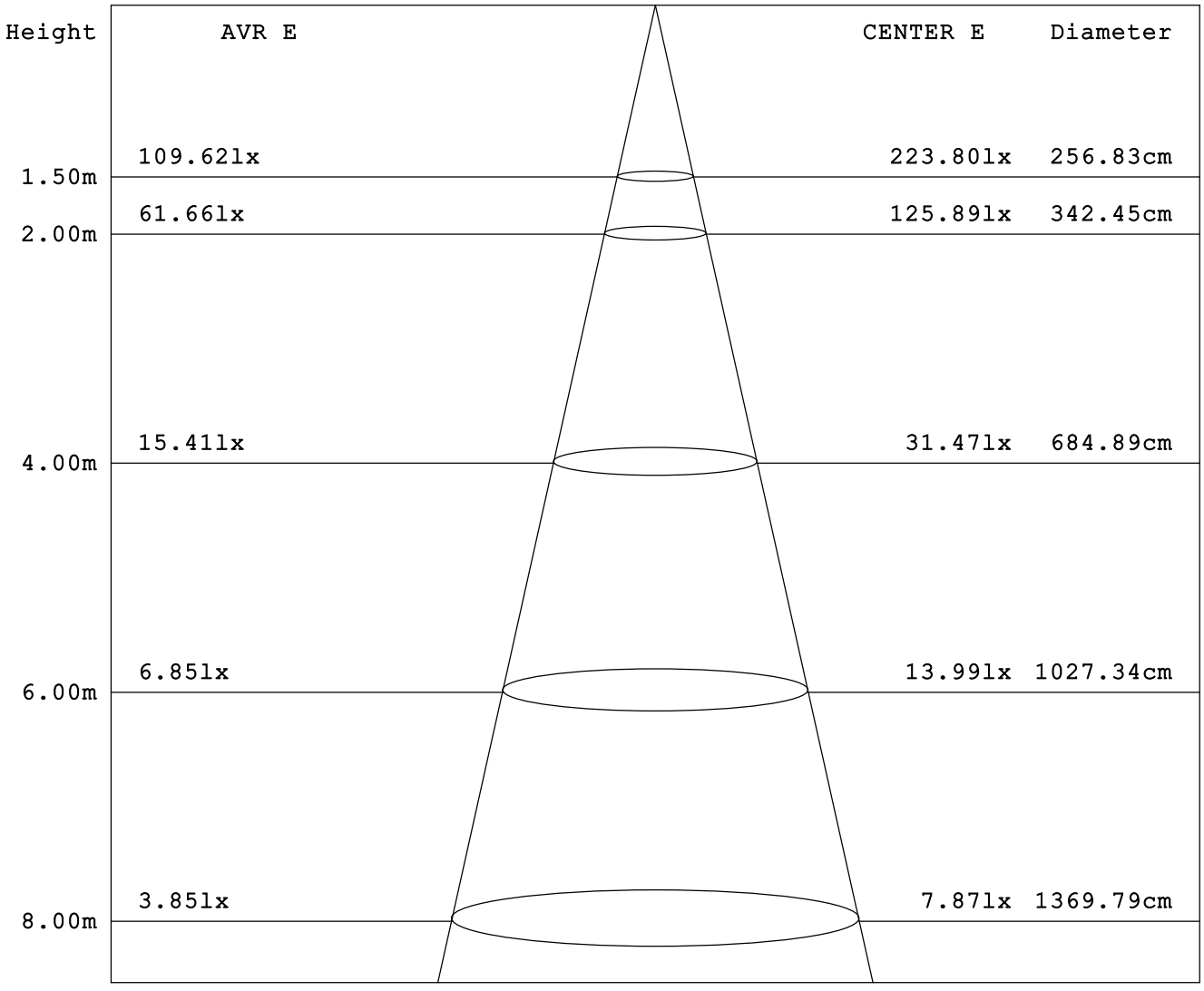

Angle:81.1deg

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Temperature:25.3DEG
Operators:
Test Date:08-12-2023

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ZONAL FLUX DIAGRAM

Report number:

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NAME: HCP-3225482		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.:

γ	C0	C90	C180	C270					γ	zone	total
5.0	500.5	495.2	498.8	495.8					0- 5	11.46	11.46
10.0	490.0	482.8	486.5	484.9					5- 10	33.80	45.27
15.0	472.1	462.0	466.8	466.5					10- 15	54.30	99.58
20.0	446.7	434.2	439.8	440.7					15- 20	71.85	171.4
25.0	414.1	399.3	405.7	407.6					20- 25	85.42	256.8
30.0	374.6	358.8	365.0	367.7					25- 30	94.14	351.0
35.0	328.8	312.4	318.2	321.4					30- 35	97.35	448.3
40.0	277.3	260.2	265.2	269.6					35- 40	94.51	542.8
45.0	220.3	203.8	206.9	212.7					40- 45	85.45	628.3
50.0	160.0	146.1	146.0	152.6					45- 50	70.51	698.8
55.0	93.77	76.08	72.67	85.98					50- 55	47.26	746.1
60.0	44.47	31.40	26.21	36.11					55- 60	25.49	771.6
65.0	12.86	10.46	3.489	11.52					60- 65	9.134	780.7
70.0	11.11	9.292	4.138	8.561					65- 70	4.206	784.9
75.0	10.91	9.292	4.869	8.115					70- 75	4.199	789.1
80.0	11.03	9.373	5.599	7.953					75- 80	4.358	793.5
85.0	11.23	9.657	6.451	8.074					80- 85	4.594	798.1
90.0	11.52	10.02	7.344	8.439					85- 90	4.871	802.9
95.0	11.80	10.38	8.196	8.845					90- 95	5.142	808.1
100.0	12.05	10.67	8.926	9.292					95-100	5.357	813.4
105.0	12.21	10.87	9.616	9.779					100-105	5.507	818.9
110.0	12.33	11.03	10.18	10.22					105-110	5.586	824.5
115.0	12.37	11.11	10.71	10.63					110-115	5.583	830.1
120.0	12.33	11.11	11.15	10.99					115-120	5.499	835.6
125.0	12.21	11.03	11.52	11.28					120-125	5.329	840.9
130.0	12.01	10.91	11.80	12.33					125-130	5.103	846.0
135.0	11.88	12.33	11.88	12.33					130-135	4.999	851.0
140.0	11.84	12.25	11.84	12.25					135-140	4.608	855.7
145.0	11.80	12.21	11.80	12.21					140-145	4.187	859.8
150.0	11.76	12.17	11.76	12.17					145-150	3.738	863.6
155.0	11.72	12.17	11.72	12.17					150-155	3.263	866.8
160.0	11.68	12.13	11.68	12.13					155-160	2.773	869.6
165.0	11.64	12.09	11.64	12.09					160-165	2.263	871.9
170.0	11.60	12.09	11.60	12.09					165-170	1.740	873.6
175.0	11.56	12.05	11.56	12.05					170-175	1.208	874.8
180.0	11.56	12.05	11.56	12.05					175-180	0.669	875.5
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:08-12-2023

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-2700K-4.8W

LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: Havit			
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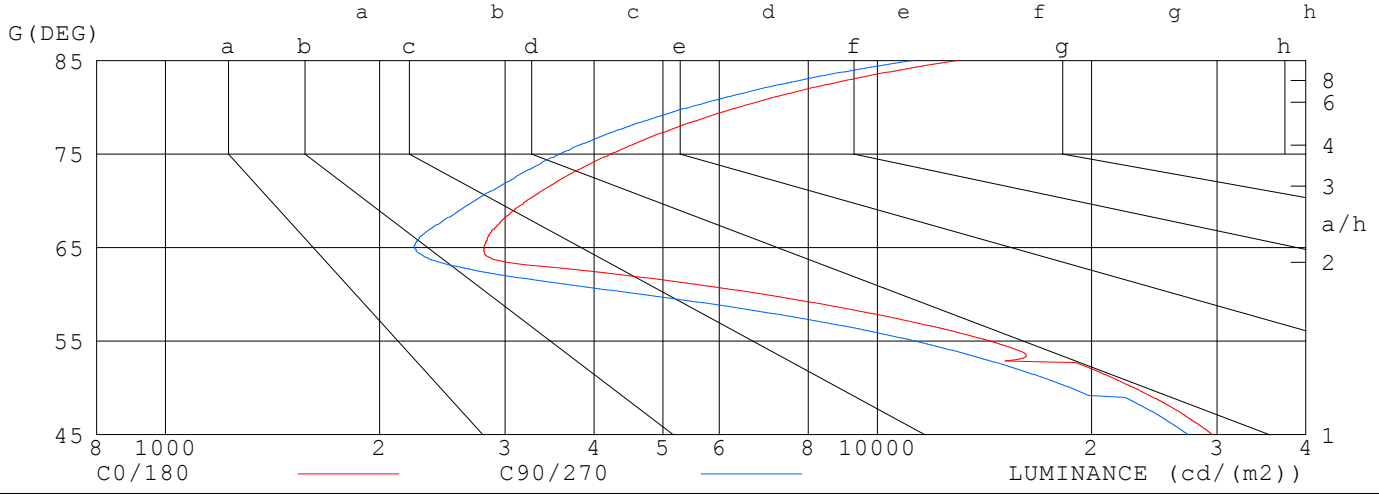
NAME: HCP-3225482		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.:

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
		a	b	c	d	e	f	g	h



LUMINANCE cd/m2		
G(DEG)	C0/180	C90/270
85	12989	11220
80	6379	5445
75	4217	3575
70	3215	2717
65	2813	2247
60	7093	4788
55	14587	11482
50	23155	18881
45	29771	27516

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ISOCANDELA DIAGRAM

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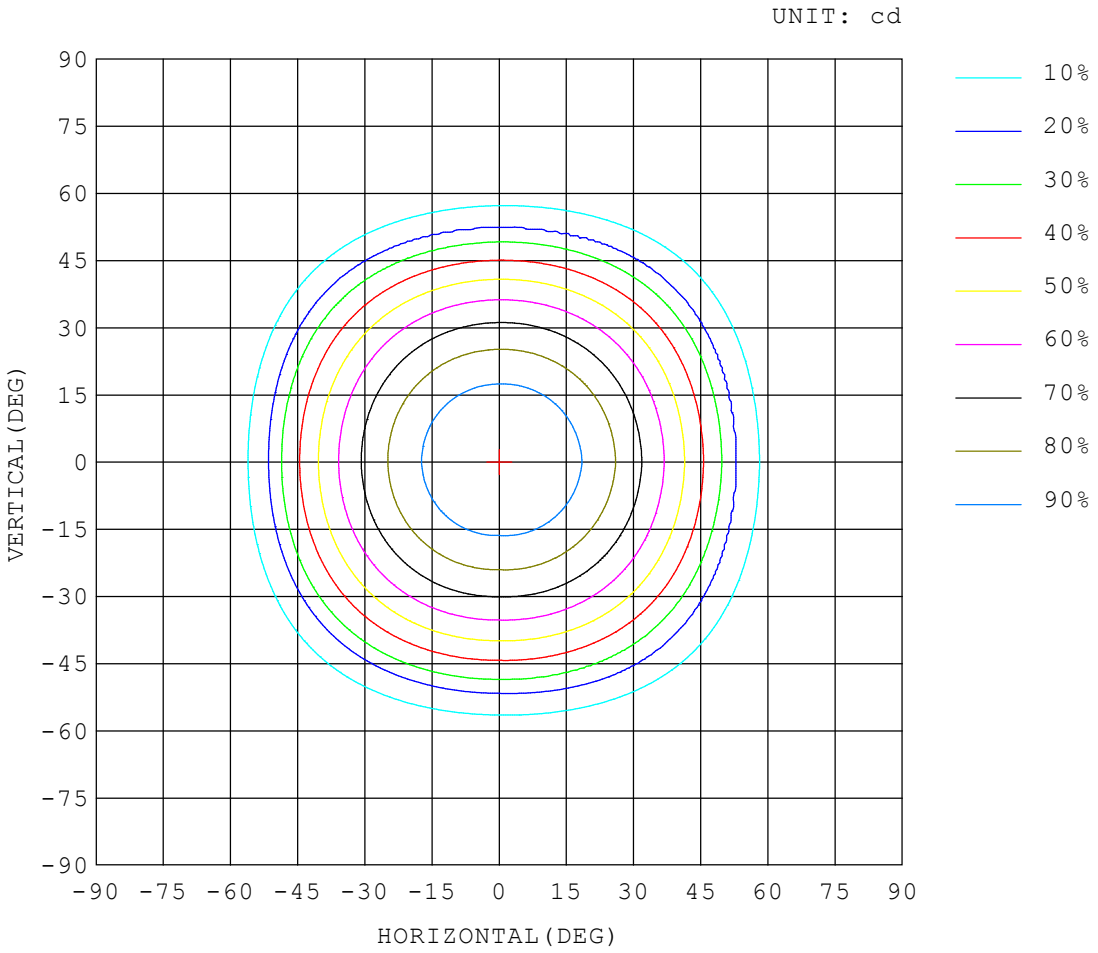
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.:



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ISOLUX DIAGRAM

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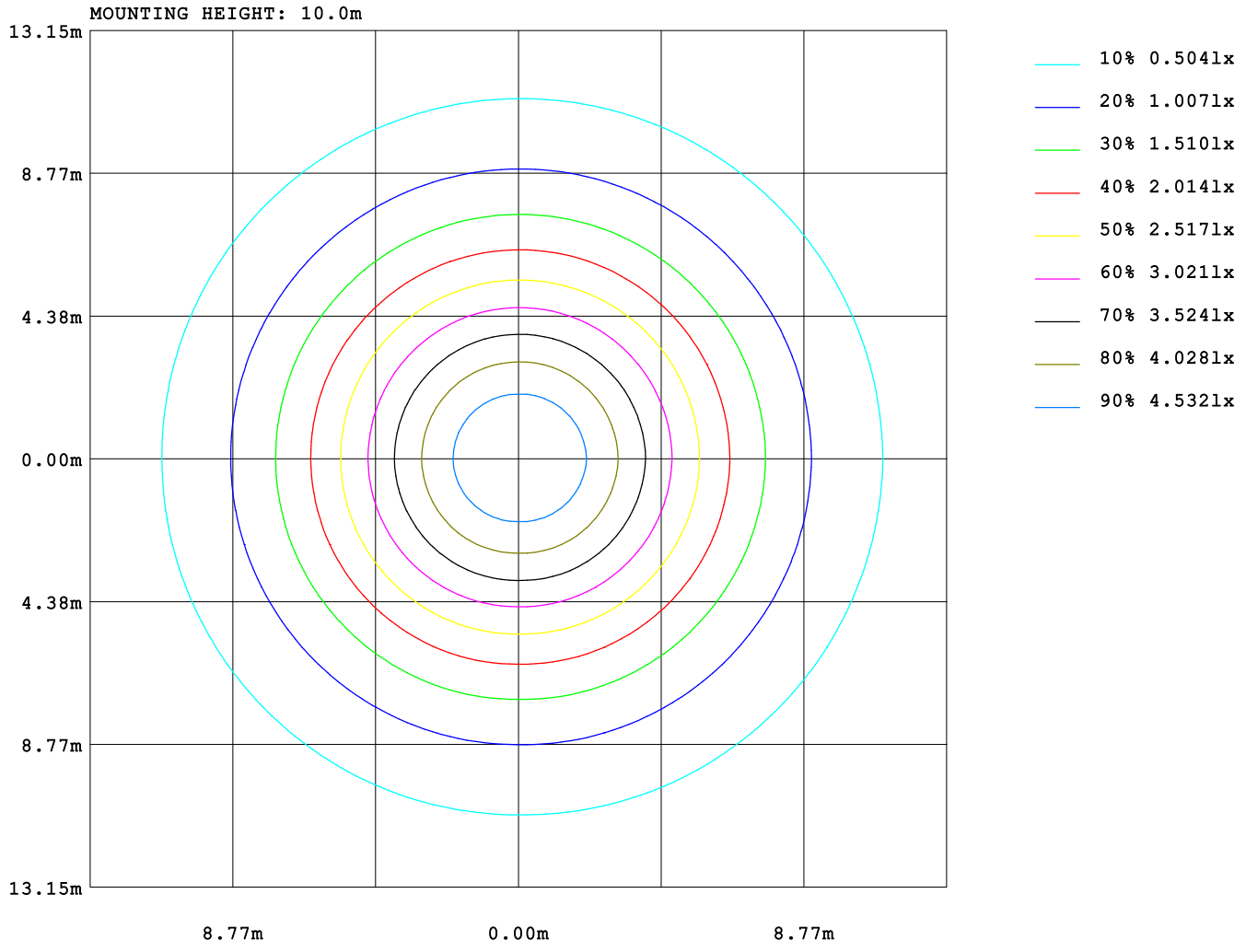
NAME: HCP-3225482		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.:



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Operators:
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AREA LUMINOUS FLUX

Report number:

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NAME: HCP-3225482		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.:

AREA FLUX DIAGRAM — UNIT:lm

VERTICAL(DEG)	-90	-80	-70	-60	-50	-40	-30	-20	20	30	40	50	60	70	80	90	Φ t	Φ a
90																		
80	0.02	0.06	0.10	0.13	0.16	0.19	0.22	0.23	0.25	0.25	0.26	0.25	0.24	0.21	0.18	0.14	0.09	0.03	3.01	0.00
70	0.02	0.06	0.09	0.12	0.15	0.17	0.20	0.22	0.24	0.25	0.25	0.24	0.23	0.21	0.17	0.13	0.09	0.03	2.86	0.00
60	0.02	0.05	0.08	0.11	0.14	0.17	0.21	0.28	0.35	0.37	0.33	0.28	0.24	0.21	0.17	0.13	0.08	0.03	3.25	0.00
50	0.02	0.05	0.08	0.10	0.15	0.41	1.02	1.72	2.22	2.27	1.84	1.18	0.56	0.25	0.18	0.13	0.08	0.03	12.3	7.78
40	0.02	0.05	0.07	0.10	0.53	1.83	3.60	5.13	5.97	6.01	5.25	3.82	2.10	0.75	0.21	0.13	0.08	0.03	35.7	33.7
30	0.02	0.04	0.06	0.25	1.54	3.98	6.43	8.32	9.36	9.39	8.41	6.58	4.24	1.85	0.42	0.14	0.08	0.03	61.1	59.8
	0.02	0.04	0.06	0.58	2.73	5.79	8.63	10.8	12.0	12.0	10.9	8.79	6.00	3.07	0.84	0.15	0.08	0.03	82.7	81.7
	0.02	0.04	0.07	0.92	3.66	7.02	10.1	12.5	13.9	13.9	12.7	10.3	7.24	3.98	1.23	0.17	0.09	0.03	98.1	97.2
	0.02	0.04	0.08	1.11	4.14	7.65	10.9	13.4	14.8	14.9	13.6	11.1	7.90	4.44	1.48	0.20	0.09	0.03	106	105
	0.02	0.04	0.08	1.10	4.13	7.63	10.9	13.4	14.8	14.8	13.5	11.1	7.88	4.43	1.47	0.20	0.09	0.03	106	105
	0.02	0.04	0.07	0.90	3.62	6.97	10.0	12.4	13.7	13.8	12.6	10.2	7.19	3.94	1.21	0.17	0.09	0.03	97.3	96.4
-30	0.02	0.04	0.06	0.56	2.66	5.72	8.51	10.6	11.8	11.8	10.7	8.67	5.92	3.01	0.82	0.15	0.09	0.03	81.4	80.4
-40	0.02	0.05	0.07	0.24	1.47	3.86	6.29	8.12	9.11	9.14	8.21	6.44	4.12	1.78	0.41	0.14	0.09	0.03	59.6	58.3
-50	0.02	0.05	0.07	0.10	0.50	1.70	3.39	4.88	5.71	5.74	5.00	3.61	1.97	0.71	0.21	0.14	0.09	0.03	33.9	31.9
-60	0.02	0.05	0.08	0.11	0.14	0.37	0.93	1.55	1.96	2.00	1.67	1.08	0.52	0.24	0.18	0.14	0.09	0.03	11.2	6.45
-70	0.02	0.06	0.09	0.12	0.15	0.18	0.22	0.27	0.33	0.35	0.32	0.28	0.25	0.22	0.18	0.14	0.09	0.03	3.28	0.00
-80	0.02	0.06	0.09	0.13	0.16	0.20	0.23	0.25	0.27	0.29	0.28	0.27	0.25	0.22	0.18	0.14	0.09	0.03	3.16	0.00
-90	0.02	0.06	0.10	0.14	0.18	0.22	0.25	0.27	0.29	0.30	0.30	0.28	0.26	0.23	0.19	0.14	0.09	0.03	3.36	0.00
HORIZONTAL(DEG)																				
Φ t	0.33	0.88	1.38	6.83	26.2	54.0	82.2	105	117	118	106	84.7	57.1	29.7	9.75	2.67	1.54	0.54	876	
Φ a	0.00	0.00	0.00	3.59	23.7	51.6	79.8	102	115	115	104	82.0	54.4	26.8	5.87	0.00	0.00	0.00		765

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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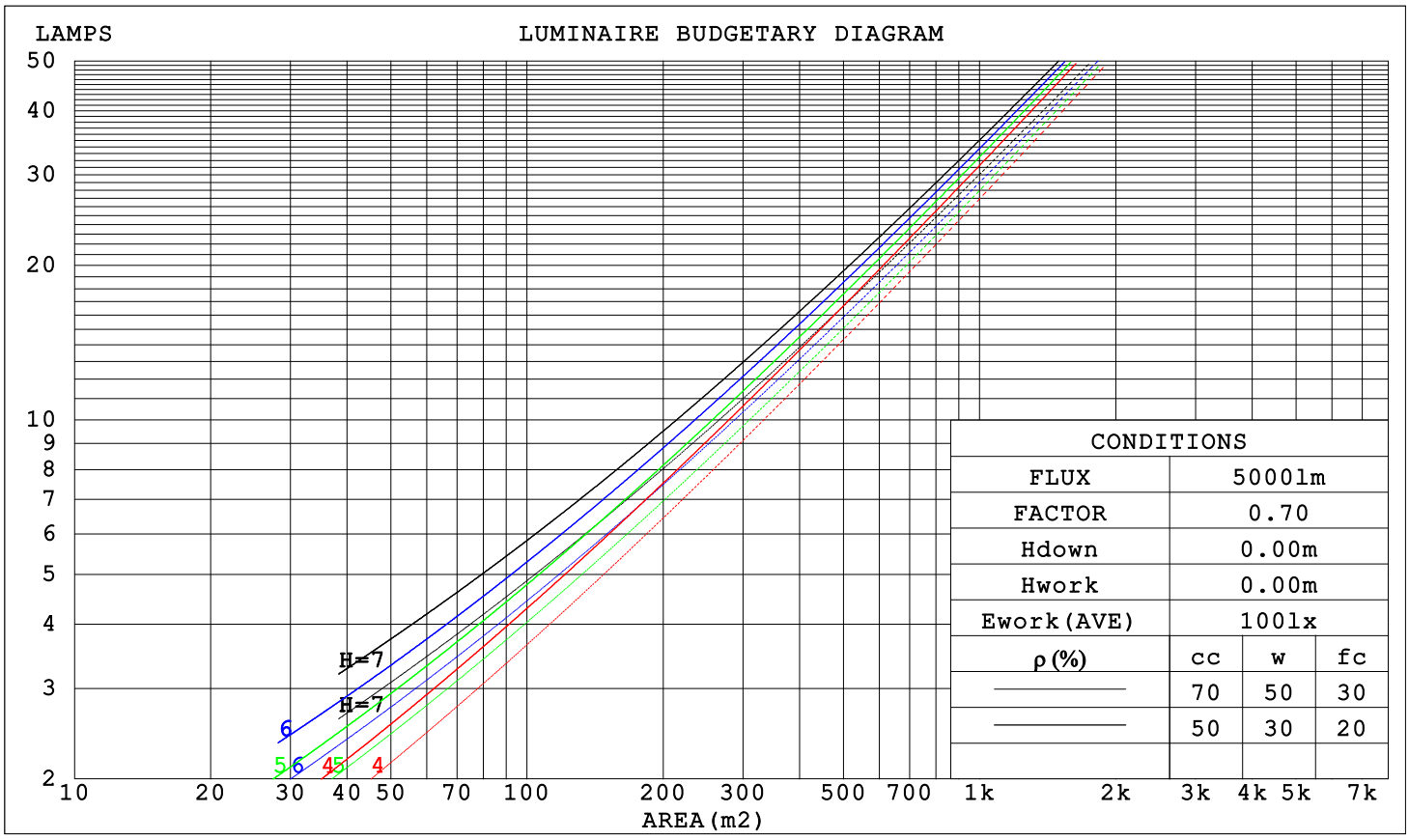
ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.07	1.07	1.07	1.00	1.00	1.00	.94	.94	.94	.92
1.0	1.06	1.03	.00	1.03	.00	.97	.97	.95	.93	.92	.90	.89	.87	.86	.85	.82
2.0	.96	.91	.86	.93	.89	.85	.89	.85	.81	.84	.81	.78	.80	.78	.76	.73
3.0	.87	.80	.75	.85	.79	.74	.81	.76	.72	.77	.73	.70	.74	.70	.68	.65
4.0	.79	.72	.66	.77	.71	.66	.74	.68	.64	.71	.66	.62	.68	.64	.61	.58
5.0	.72	.64	.59	.70	.64	.58	.67	.62	.57	.65	.60	.56	.62	.58	.55	.53
6.0	.66	.58	.53	.64	.57	.52	.62	.56	.51	.60	.54	.50	.57	.53	.49	.47
7.0	.60	.53	.48	.59	.52	.47	.57	.51	.46	.55	.50	.46	.53	.48	.45	.43
8.0	.56	.48	.43	.55	.48	.43	.53	.47	.42	.51	.46	.42	.49	.44	.41	.39
9.0	.52	.44	.40	.51	.44	.39	.49	.43	.39	.47	.42	.38	.46	.41	.37	.36
10.0	.48	.41	.36	.47	.40	.36	.46	.40	.36	.44	.39	.35	.43	.38	.35	.33



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WEC AND CCEC

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ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.233	.132	.042	.223	.127	.040	.206	.118	.038	.190	.109	.035	.175	.101	.033	
2.0	.221	.121	.037	.213	.117	.036	.198	.110	.034	.184	.103	.032	.170	.096	.030	
3.0	.210	.112	.033	.202	.108	.033	.189	.102	.031	.176	.097	.030	.164	.091	.028	
4.0	.198	.103	.030	.192	.100	.030	.180	.095	.028	.168	.090	.027	.158	.086	.026	
5.0	.187	.095	.028	.182	.093	.027	.171	.089	.026	.160	.085	.025	.151	.081	.024	
6.0	.177	.089	.025	.172	.087	.025	.162	.083	.024	.153	.079	.023	.144	.076	.023	
7.0	.168	.083	.024	.163	.081	.023	.154	.078	.022	.145	.075	.022	.138	.071	.021	
8.0	.159	.078	.022	.155	.076	.022	.146	.073	.021	.139	.070	.020	.131	.067	.020	
9.0	.151	.073	.020	.147	.072	.020	.139	.069	.020	.132	.066	.019	.126	.064	.018	
10.0	.143	.069	.019	.140	.068	.019	.133	.065	.018	.126	.063	.018	.120	.060	.017	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.220	.204	.204	.189	.176	.140	.130	.121	.080	.075	.071	.026	.024	.023	
2.0	.227	.196	.171	.194	.169	.147	.133	.117	.103	.077	.068	.060	.025	.022	.020	
3.0	.217	.178	.147	.186	.154	.128	.128	.107	.090	.074	.062	.053	.024	.020	.017	
4.0	.209	.165	.131	.179	.142	.113	.123	.099	.080	.071	.058	.047	.023	.019	.016	
5.0	.202	.154	.119	.173	.133	.103	.119	.093	.073	.069	.055	.043	.022	.018	.014	
6.0	.195	.145	.110	.168	.126	.095	.116	.088	.067	.067	.052	.040	.022	.017	.013	
7.0	.189	.138	.103	.163	.120	.090	.112	.084	.063	.065	.050	.038	.021	.016	.012	
8.0	.183	.132	.098	.158	.115	.085	.109	.081	.060	.064	.048	.036	.021	.016	.012	
9.0	.178	.128	.093	.153	.111	.082	.106	.078	.058	.062	.046	.035	.020	.015	.011	
10.0	.173	.123	.090	.149	.107	.079	.104	.075	.056	.060	.045	.033	.020	.015	.011	

Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:08-12-2023

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-2700K-4.8W

UGR Table

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225482		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	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	20.9	22.1	21.3	22.4	22.7	20.4	21.6	20.8	21.9	22.2
3H	20.8	21.8	21.2	22.2	22.6	20.3	21.3	20.7	21.7	22.1
4H	20.8	21.7	21.2	22.1	22.5	20.3	21.2	20.7	21.6	22.0
6H	20.8	21.8	21.3	22.2	22.6	20.3	21.2	20.8	21.6	22.1
8H	21.0	21.8	21.4	22.2	22.7	20.4	21.3	20.9	21.7	22.1
12H	21.2	22.0	21.6	22.4	22.9	20.6	21.4	21.1	21.9	22.3
4H 2H	20.7	21.7	21.1	22.1	22.5	20.2	21.2	20.7	21.6	22.0
3H	20.6	21.4	21.1	21.9	22.3	20.1	21.0	20.6	21.4	21.9
4H	20.6	21.4	21.1	21.9	22.3	20.2	20.9	20.7	21.4	21.9
6H	20.9	21.5	21.4	22.0	22.5	20.3	21.0	20.9	21.5	22.0
8H	21.1	21.7	21.6	22.2	22.7	20.5	21.2	21.1	21.7	22.2
12H	21.5	22.0	22.0	22.6	23.1	20.9	21.5	21.4	22.0	22.5
8H 4H	20.6	21.2	21.1	21.7	22.2	20.1	20.7	20.6	21.2	21.8
6H	20.9	21.4	21.5	22.0	22.6	20.4	20.9	21.0	21.5	22.1
8H	21.3	21.7	21.9	22.3	22.9	20.8	21.2	21.4	21.8	22.4
12H	21.9	22.3	22.5	22.9	23.5	21.4	21.7	22.0	22.3	23.0
12H 4H	20.5	21.1	21.1	21.6	22.2	20.1	20.7	20.6	21.2	21.7
6H	21.0	21.4	21.5	22.0	22.6	20.5	20.9	21.1	21.5	22.1
8H	21.4	21.8	22.0	22.4	23.0	20.9	21.3	21.5	21.9	22.5
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 1.8					+ 1.4 / - 2.2				
1.5H	+ 0.8 / - 1.6					+ 0.9 / - 1.7				
2.0H	+ 3.0 / - 3.4					+ 3.3 / - 3.3				

CIE Pub.117 Corrected 875.5 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.5)

Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:08-12-2023

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-2700K-4.8W

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225482		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	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) x RCR = 5									
k = 0.60	67	58	52	66	57	52	65	57	52	46
0.80	77	68	62	76	67	62	74	66	61	55
1.00	85	76	70	83	75	70	81	75	69	63
1.25	91	83	77	89	82	77	86	80	75	69
1.50	95	87	82	93	86	81	89	84	80	72
2.00	100	93	89	98	92	87	93	89	85	77
2.50	102	97	92	100	95	91	95	91	88	79
3.00	105	100	95	102	98	94	97	94	91	81
4.00	108	103	100	105	101	98	99	96	94	83
5.00	109	105	102	106	103	100	101	98	96	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

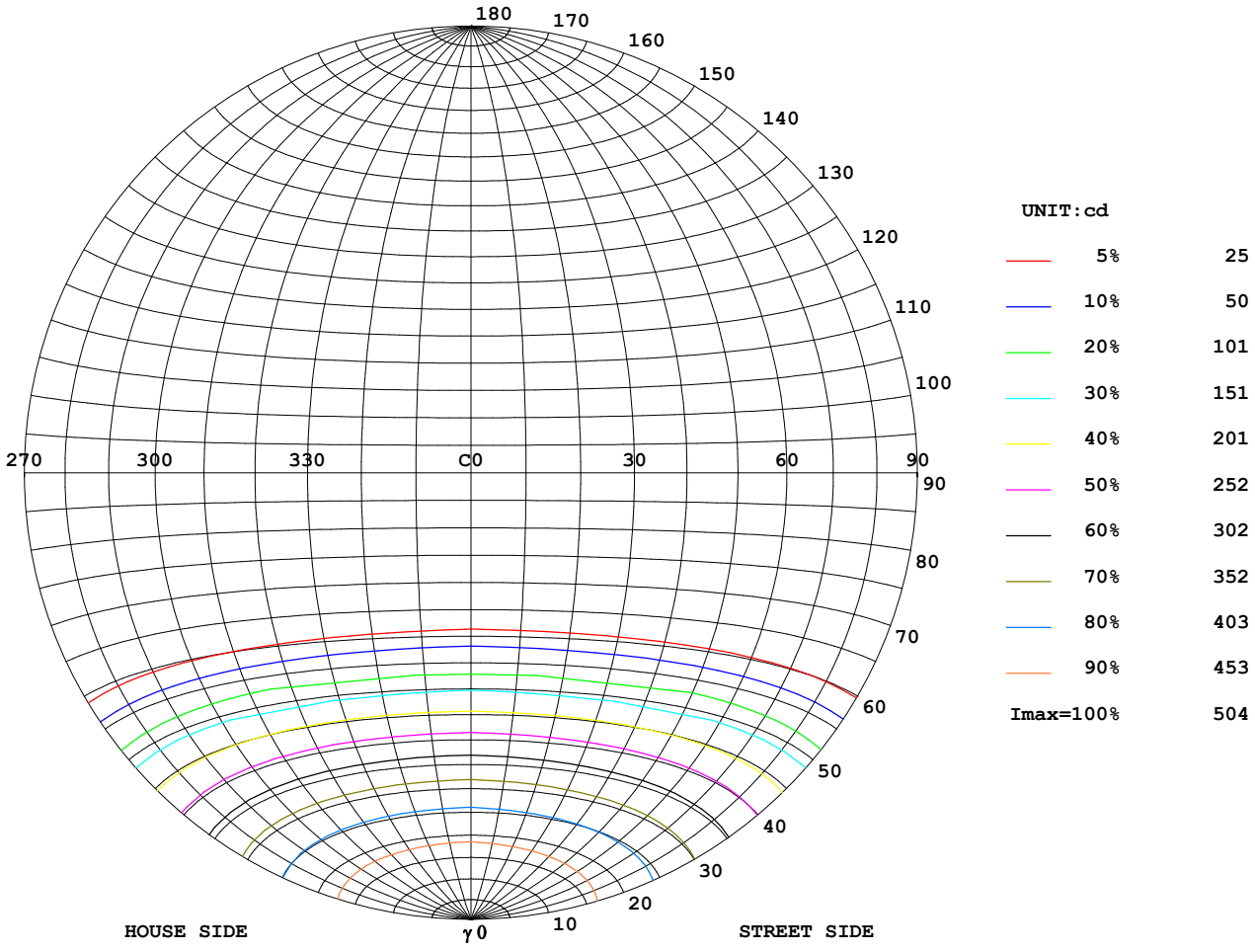
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:08-12-2023

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-2700K-4.8W

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225482		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.:



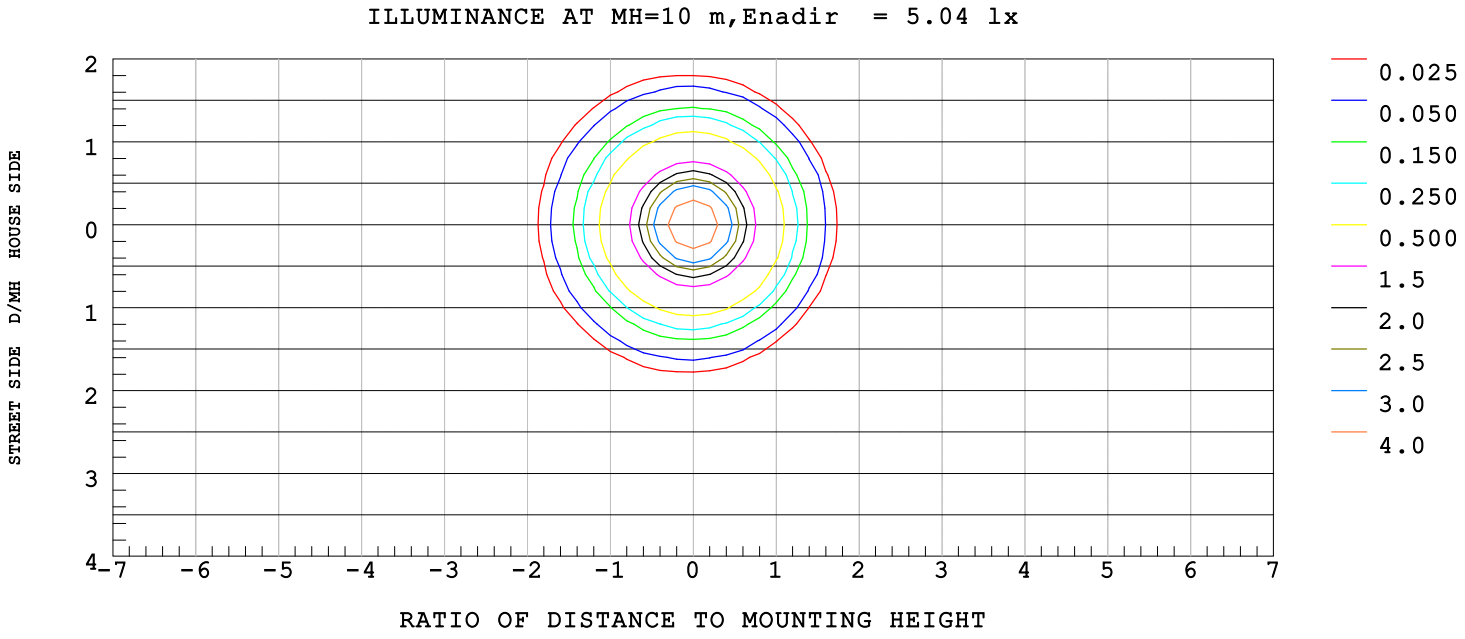
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:08-12-2023

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-2700K-4.8W

ISOLUX DIAGRAM

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225482		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.:



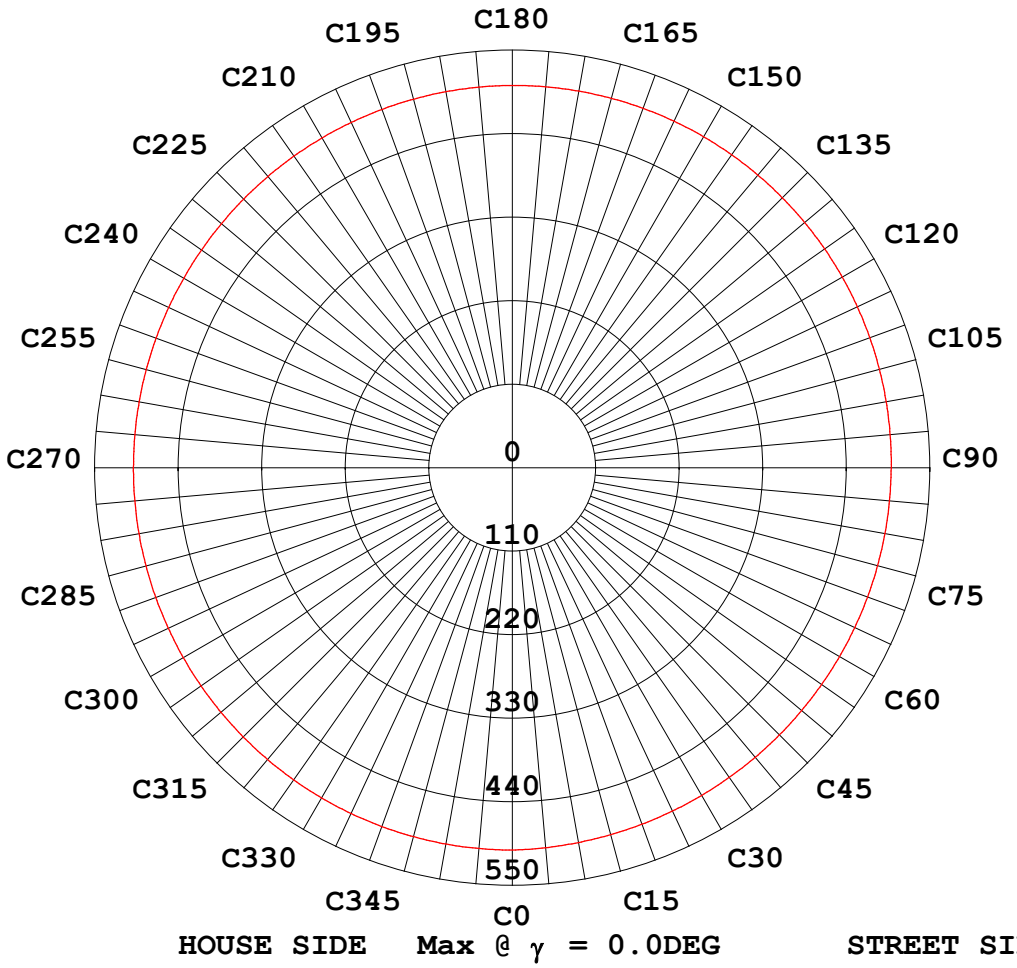
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:08-12-2023

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-2700K-4.8W

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225482		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.:



Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:08-12-2023

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-2700K-4.8W

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225482		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.:

UNIT: cd

γ (DEG) \ C(DEG)	0	90	180	270
0.0	504	499	504	499
5.0	501	495	499	496
10.0	490	483	486	485
15.0	471	461	466	466
20.0	445	432	438	439
25.0	411	396	403	405
30.0	370	354	361	363
35.0	323	306	312	316
40.0	269	252	257	262
45.0	211	195	197	203
50.0	149	121	120	141
55.0	83.6	65.8	62.2	74.7
60.0	35.4	23.9	18.5	27.8
65.0	11.8	9.49	3.61	9.94
70.0	10.9	9.29	4.30	8.39
75.0	10.9	9.25	5.07	7.99
80.0	11.0	9.45	5.84	7.95
85.0	11.3	9.77	6.73	8.19
90.0	11.6	10.1	7.66	8.56
95.0	11.8	10.5	8.43	9.00
100.0	12.0	10.7	9.21	9.49
105.0	12.2	10.9	9.86	9.98
110.0	12.3	11.0	10.4	10.4
115.0	12.3	11.1	10.9	10.8
120.0	12.2	11.0	11.3	11.1
125.0	12.0	10.9	11.6	11.4
130.0	11.9	12.3	11.9	12.3
135.0	11.8	12.2	11.8	12.2
140.0	11.8	12.2	11.8	12.2
145.0	11.7	12.2	11.7	12.2
150.0	11.7	12.1	11.7	12.1
155.0	11.6	12.1	11.6	12.1
160.0	11.6	12.1	11.6	12.1
165.0	11.6	12.0	11.6	12.0
170.0	11.6	12.0	11.6	12.0
175.0	11.5	12.0	11.5	12.0
180.0	11.5	12.0	11.5	12.0

Test System:HOPOO HP880
Temperature:25.3DEG
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Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
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