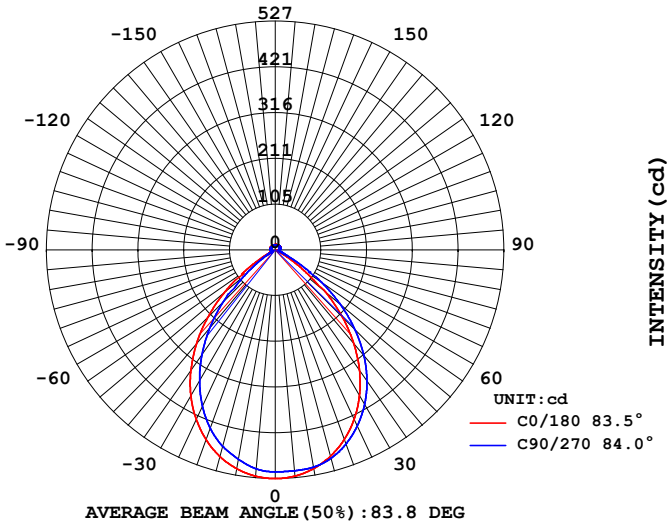
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225484		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

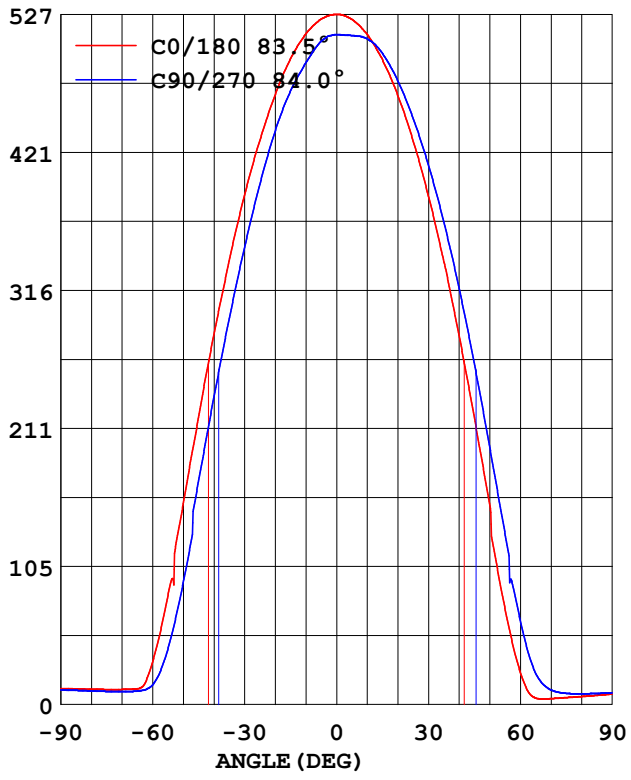
DATA OF LAMP		Imax(cd)	526.8	S/MH(C0/180)	1.12
MODEL	24V-2835-180D-[illegible]	[illegible](%)	100.0	S/MH(C90/270)	1.06
NOMINAL POWER(W)	4.8	TOTAL FLUX(lm)	938.6	Voltage(V)	24.03
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	195.6	Current(A)	0.239
NOMINAL FLUX(lm)	938.6	η up(%)	8.0	Power(W)	4.800
LAMPS QUANTITY	1	η down(%)	92.0	Power Factor(PF)	1.000
TEST VOLTAGE(V)	24.0	Effictive Flux(lm)	822.8	EEI	0.073

LUMINOUS INTENSITY DISTRIBUTION



AVERAGE BEAM ANGLE(50%):83.8 DEG

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-4000K-4.8W

Color Temperature Data List

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AVERAGE AND CENTER E Figure

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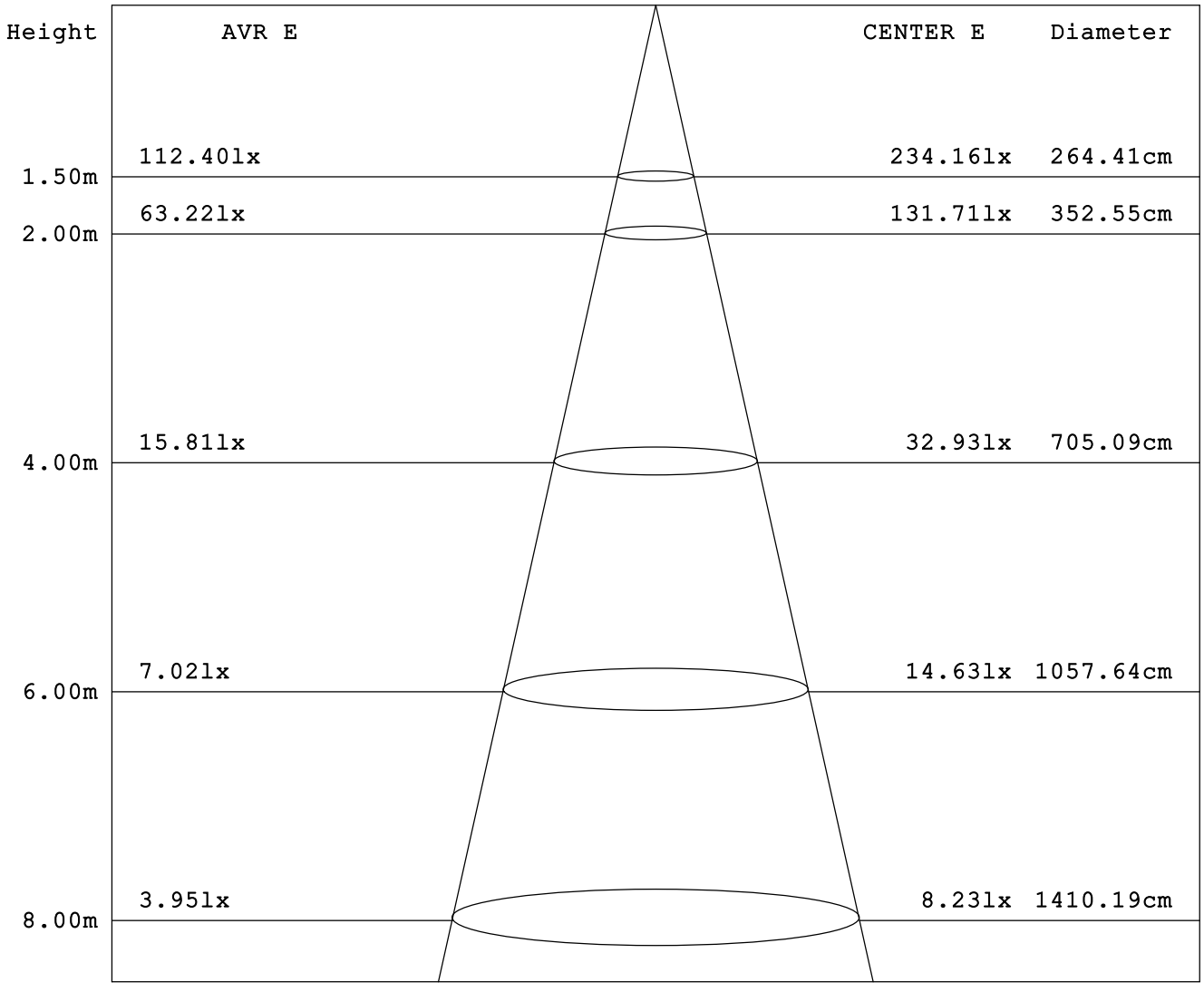

Angle:82.8deg

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

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ZONAL FLUX DIAGRAM

Report number:

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NAME: HCP-3225484		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

γ	C0	C90	C180	C270					γ	zone	total
5.0	523.3	506.4	523.0	510.6					0- 5	11.88	11.88
10.0	512.4	490.5	512.1	508.4					5- 10	35.10	46.99
15.0	494.2	469.8	493.6	497.9					10- 15	56.69	103.6
20.0	467.8	440.7	467.5	478.0					15- 20	75.45	179.1
25.0	434.3	401.6	434.1	450.6					20- 25	90.13	269.2
30.0	394.3	355.0	393.5	416.5					25- 30	99.84	369.1
35.0	346.7	302.5	346.0	375.1					30- 35	103.8	472.9
40.0	291.9	244.4	291.2	326.5					35- 40	101.3	574.3
45.0	231.4	182.3	230.6	270.8					40- 45	92.33	666.6
50.0	166.8	105.0	165.7	209.2					45- 50	76.11	742.7
55.0	94.62	52.06	85.94	144.8					50- 55	53.28	796.0
60.0	42.84	19.07	34.04	77.13					55- 60	30.02	826.1
65.0	12.98	10.63	6.573	31.36					60- 65	12.68	838.7
70.0	11.56	9.819	4.301	13.10					65- 70	5.753	844.5
75.0	11.44	9.900	5.031	8.886					70- 75	4.623	849.1
80.0	11.56	10.22	5.802	8.196					75- 80	4.610	853.7
85.0	11.80	10.63	6.695	8.318					80- 85	4.852	858.6
90.0	12.13	10.99	7.628	8.724					85- 90	5.152	863.7
95.0	12.41	11.28	8.480	9.251					90- 95	5.438	869.2
100.0	12.61	11.52	9.251	9.819					95-100	5.660	874.8
105.0	12.78	11.68	9.941	10.38					100-105	5.813	880.6
110.0	12.90	11.76	10.54	10.87					105-110	5.885	886.5
115.0	12.90	11.76	11.11	11.28					110-115	5.868	892.4
120.0	12.86	11.64	11.56	11.52					115-120	5.774	898.2
125.0	12.70	11.52	11.97	11.64					120-125	5.549	903.7
130.0	12.49	11.84	12.21	11.84					125-130	5.290	909.0
135.0	12.41	11.92	12.41	11.92					130-135	5.013	914.0
140.0	12.33	11.88	12.33	11.88					135-140	4.634	918.7
145.0	12.29	11.84	12.29	11.84					140-145	4.207	922.9
150.0	12.25	11.80	12.25	11.80					145-150	3.755	926.6
155.0	12.21	11.76	12.21	11.76					150-155	3.280	929.9
160.0	12.17	11.72	12.17	11.72					155-160	2.785	932.7
165.0	12.13	11.68	12.13	11.68					160-165	2.273	935.0
170.0	12.13	11.68	12.13	11.68					165-170	1.747	936.7
175.0	12.09	11.64	12.09	11.64					170-175	1.211	937.9
180.0	12.05	11.60	12.05	11.60					175-180	0.671	938.6
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-4000K-4.8W

LUMINANCE LIMITATION CURVES

Report number:

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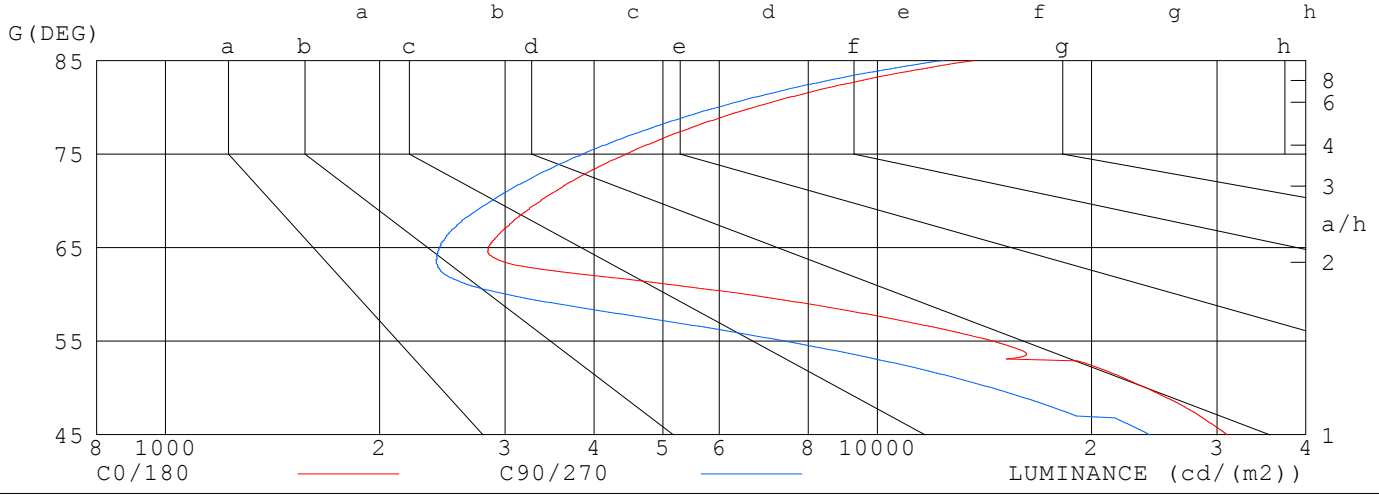
NAME: HCP-3225484		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

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	13688	12338
80	6706	5959
75	4437	3857
70	3369	2871
65	2852	2429
60	6703	3068
55	14722	7562
50	24064	14677
45	31211	24331

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ISOCANDELA DIAGRAM

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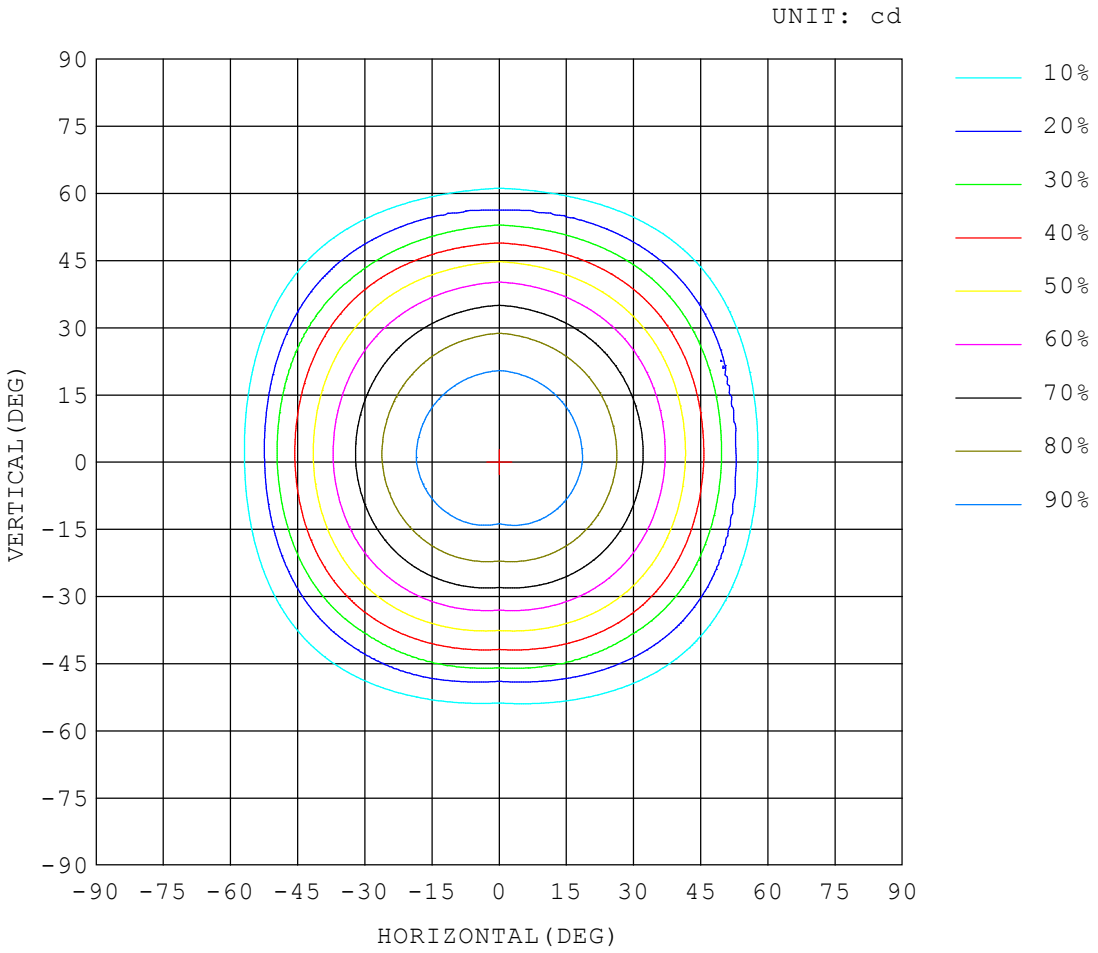
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:



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ISOLUX DIAGRAM

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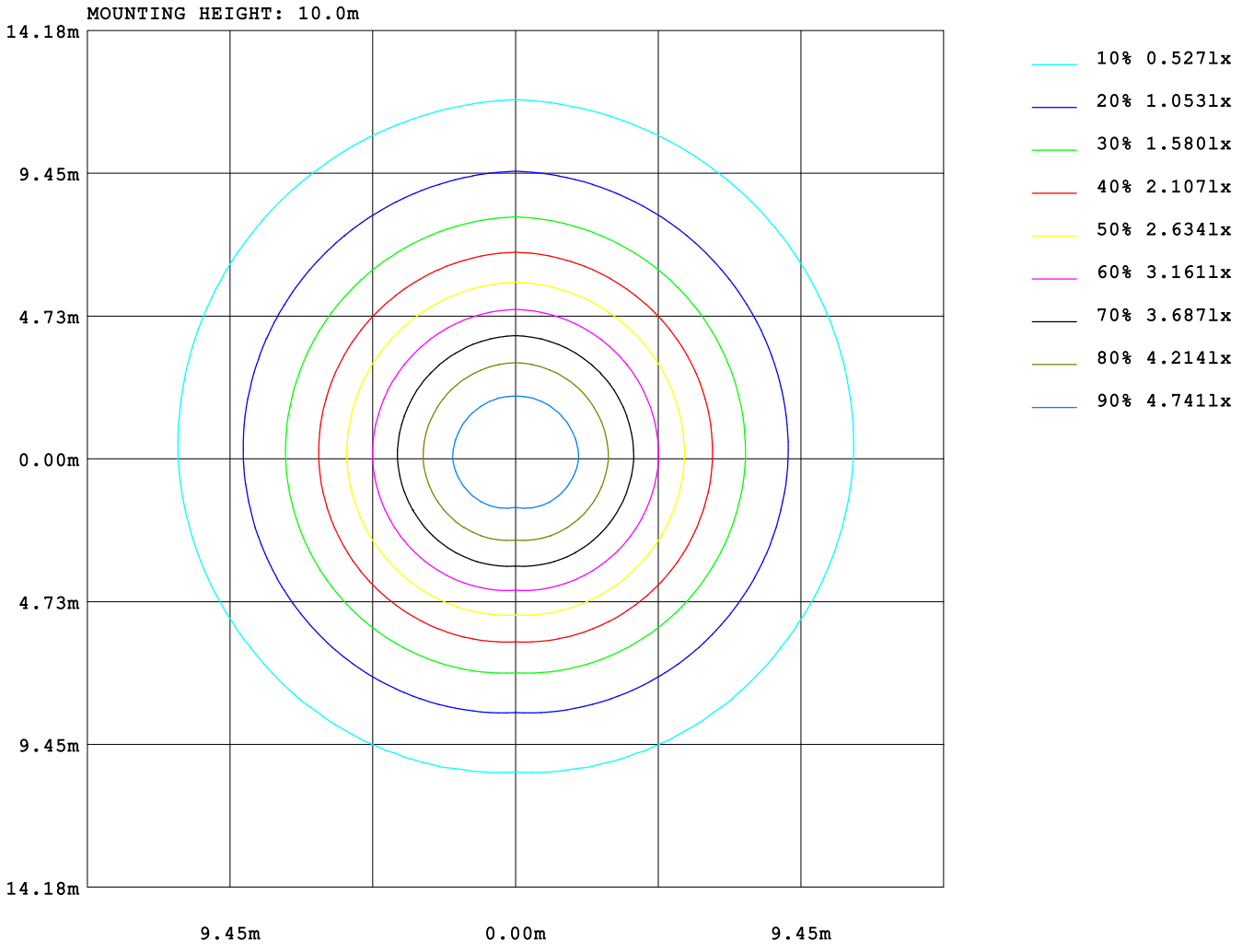

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AREA LUMINOUS FLUX

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SPECIFICATION:	CCT(K): 1000980	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	0.14	0.17	0.20	0.22	0.24	0.25	0.26	0.27	0.26	0.25	0.22	0.19	0.14	0.09	0.03	3.12	0.00
70	0.02	0.06	0.09	0.12	0.15	0.18	0.21	0.24	0.26	0.27	0.27	0.26	0.24	0.21	0.18	0.14	0.09	0.03	3.03	0.00
60	0.02	0.05	0.08	0.11	0.15	0.23	0.38	0.61	0.81	0.82	0.65	0.44	0.30	0.23	0.18	0.14	0.09	0.03	5.34	0.26
50	0.02	0.05	0.08	0.12	0.28	0.84	1.84	2.94	3.69	3.71	2.99	1.92	0.92	0.36	0.20	0.14	0.09	0.03	20.2	16.7
40	0.02	0.05	0.08	0.19	0.93	2.66	4.82	6.59	7.64	7.64	6.61	4.88	2.79	1.02	0.27	0.14	0.09	0.03	46.4	44.6
30	0.02	0.05	0.08	0.43	2.12	4.93	7.62	9.72	10.9	10.9	9.72	7.63	4.98	2.26	0.53	0.15	0.09	0.03	72.2	70.9
	0.02	0.04	0.09	0.83	3.38	6.69	9.73	12.0	13.3	13.3	12.0	9.74	6.70	3.48	0.95	0.17	0.09	0.03	92.7	91.7
	0.02	0.04	0.10	1.18	4.28	7.85	11.1	13.5	14.8	14.8	13.5	11.1	7.86	4.33	1.33	0.19	0.09	0.03	106	106
	0.02	0.04	0.11	1.35	4.70	8.38	11.7	14.3	15.5	15.5	14.3	11.7	8.39	4.72	1.54	0.20	0.09	0.03	113	112
	0.02	0.04	0.11	1.30	4.58	8.23	11.6	14.1	15.3	15.3	14.1	11.6	8.24	4.61	1.48	0.19	0.09	0.03	111	110
	0.02	0.04	0.09	1.03	3.95	7.40	10.5	12.9	14.1	14.1	12.9	10.5	7.41	4.00	1.18	0.17	0.09	0.03	101	99.9
-30	0.02	0.05	0.07	0.64	2.83	5.95	8.78	10.9	11.9	11.9	10.9	8.79	5.96	2.94	0.76	0.15	0.09	0.03	82.8	81.7
-40	0.02	0.05	0.07	0.28	1.50	3.86	6.28	8.04	8.88	8.88	8.04	6.29	3.91	1.65	0.38	0.15	0.09	0.03	58.4	56.9
-50	0.02	0.05	0.08	0.12	0.51	1.59	3.10	4.41	5.04	5.04	4.43	3.16	1.72	0.62	0.21	0.14	0.09	0.03	30.4	27.9
-60	0.02	0.05	0.08	0.11	0.16	0.37	0.78	1.20	1.41	1.43	1.26	0.85	0.45	0.25	0.19	0.14	0.09	0.03	8.90	3.37
-70	0.02	0.06	0.09	0.12	0.16	0.19	0.23	0.28	0.32	0.33	0.32	0.29	0.26	0.23	0.19	0.15	0.09	0.03	3.37	0.00
-80	0.02	0.06	0.10	0.14	0.17	0.21	0.24	0.27	0.30	0.31	0.30	0.29	0.27	0.24	0.20	0.15	0.09	0.03	3.38	0.00
-90	0.02	0.07	0.11	0.15	0.20	0.23	0.27	0.30	0.32	0.33	0.32	0.31	0.28	0.25	0.20	0.15	0.09	0.03	3.63	0.00
HORIZONTAL(DEG)																				
Φ t	0.35	0.92	1.61	8.39	30.2	60.0	89.6	113	125	125	113	90.2	60.9	31.6	10.1	2.80	1.62	0.57	939	
Φ a	0.00	0.00	0.00	4.88	27.5	57.4	87.0	110	122	122	110	87.3	58.0	28.4	6.00	0.00	0.00	0.00		823

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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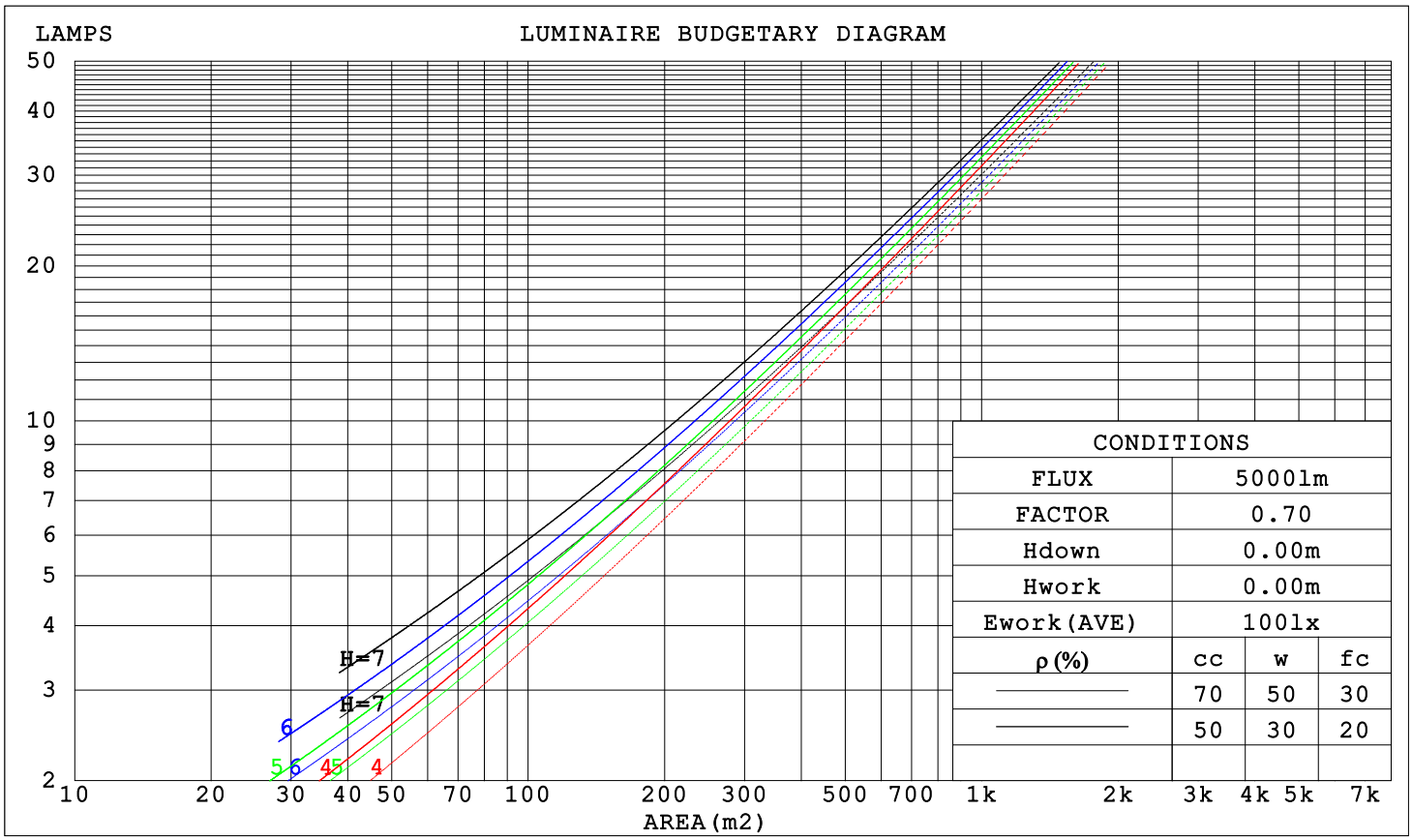
ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.07	1.07	1.07	1.00	1.00	1.00	.95	.95	.95	.92
1.0	1.06	1.03	.00	1.03	.00	.97	.97	.95	.93	.92	.90	.89	.87	.86	.85	.82
2.0	.96	.90	.86	.93	.88	.84	.88	.85	.81	.84	.81	.78	.80	.78	.75	.73
3.0	.86	.80	.75	.84	.79	.74	.80	.76	.72	.77	.73	.69	.74	.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	.52	.47	.59	.52	.47	.57	.50	.46	.55	.49	.45	.53	.48	.44	.42
8.0	.55	.48	.43	.54	.47	.42	.52	.46	.42	.51	.45	.41	.49	.44	.40	.39
9.0	.51	.44	.39	.50	.43	.39	.49	.42	.38	.47	.42	.38	.46	.41	.37	.35
10.0	.47	.40	.36	.47	.40	.35	.45	.39	.35	.44	.38	.35	.42	.38	.34	.32



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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	.235	.134	.042	.226	.129	.041	.208	.119	.038	.192	.111	.036	.177	.103	.033	
2.0	.224	.123	.038	.216	.119	.037	.200	.111	.035	.186	.104	.033	.173	.098	.031	
3.0	.212	.113	.034	.205	.110	.033	.191	.104	.031	.179	.098	.030	.167	.092	.029	
4.0	.200	.104	.031	.194	.101	.030	.182	.096	.029	.170	.092	.028	.160	.087	.026	
5.0	.189	.096	.028	.183	.094	.027	.173	.090	.026	.162	.086	.025	.153	.082	.025	
6.0	.179	.090	.026	.174	.088	.025	.164	.084	.024	.155	.080	.024	.146	.077	.023	
7.0	.169	.084	.024	.164	.082	.023	.156	.079	.023	.147	.075	.022	.139	.072	.021	
8.0	.160	.078	.022	.156	.077	.022	.148	.074	.021	.140	.071	.020	.133	.068	.020	
9.0	.152	.074	.021	.148	.072	.020	.141	.070	.020	.134	.067	.019	.127	.064	.019	
10.0	.144	.069	.019	.141	.068	.019	.134	.066	.018	.128	.063	.018	.121	.061	.018	

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	.251	.251	.251	.215	.215	.215	.147	.147	.147	.084	.084	.084	.027	.027	.027	
1.0	.236	.218	.202	.202	.187	.173	.138	.129	.120	.080	.075	.070	.026	.024	.023	
2.0	.225	.194	.168	.193	.167	.145	.132	.115	.101	.076	.067	.059	.024	.022	.019	
3.0	.215	.176	.145	.185	.152	.125	.127	.105	.088	.073	.062	.052	.024	.020	.017	
4.0	.207	.162	.128	.178	.140	.111	.122	.098	.078	.071	.057	.046	.023	.019	.015	
5.0	.200	.151	.116	.172	.131	.101	.118	.092	.071	.068	.054	.042	.022	.018	.014	
6.0	.193	.143	.107	.166	.124	.093	.115	.087	.066	.066	.051	.039	.021	.017	.013	
7.0	.187	.136	.100	.161	.118	.087	.111	.083	.062	.065	.049	.037	.021	.016	.012	
8.0	.181	.130	.095	.156	.113	.083	.108	.079	.059	.063	.047	.035	.020	.015	.012	
9.0	.176	.125	.091	.152	.109	.079	.105	.076	.056	.061	.045	.034	.020	.015	.011	
10.0	.171	.121	.088	.148	.105	.076	.102	.074	.054	.060	.044	.032	.019	.014	.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-4000K-4.8W

UGR Table

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225484		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	20.6	21.8	21.0	22.1	22.4	19.4	20.6	19.7	20.9	21.2
3H	20.5	21.6	20.9	21.9	22.3	19.3	20.3	19.7	20.7	21.0
4H	20.5	21.5	20.9	21.9	22.3	19.3	20.3	19.7	20.6	21.0
6H	20.6	21.5	21.0	21.9	22.3	19.4	20.3	19.8	20.7	21.2
8H	20.7	21.6	21.2	22.0	22.5	19.6	20.5	20.0	20.9	21.3
12H	21.0	21.8	21.4	22.2	22.7	19.9	20.7	20.3	21.1	21.6
4H 2H	20.4	21.4	20.8	21.7	22.1	19.2	20.2	19.6	20.6	21.0
3H	20.3	21.2	20.8	21.6	22.0	19.1	20.0	19.6	20.4	20.9
4H	20.4	21.1	20.8	21.6	22.1	19.2	20.0	19.7	20.4	20.9
6H	20.6	21.3	21.1	21.8	22.3	19.5	20.2	20.0	20.7	21.2
8H	20.9	21.5	21.4	22.0	22.5	19.8	20.5	20.4	21.0	21.5
12H	21.3	21.9	21.9	22.4	23.0	20.3	20.9	20.9	21.4	22.0
8H 4H	20.3	20.9	20.8	21.4	22.0	19.2	19.8	19.7	20.3	20.9
6H	20.7	21.2	21.3	21.8	22.3	19.7	20.2	20.3	20.8	21.3
8H	21.1	21.6	21.7	22.1	22.8	20.2	20.6	20.8	21.2	21.8
12H	21.8	22.2	22.4	22.8	23.4	21.0	21.3	21.6	21.9	22.6
12H 4H	20.3	20.9	20.8	21.4	21.9	19.2	19.8	19.8	20.3	20.9
6H	20.8	21.2	21.3	21.8	22.4	19.8	20.2	20.4	20.8	21.4
8H	21.3	21.7	21.9	22.2	22.9	20.4	20.8	21.0	21.3	22.0

Variations with the observer position at spacings:		
S = 1.0H	+ 1.2 / - 1.7	+ 1.5 / - 2.2
1.5H	+ 0.9 / - 1.9	+ 1.2 / - 1.9
2.0H	+ 3.3 / - 3.1	+ 3.3 / - 2.3

CIE Pub.117 Corrected 938.6 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.2)

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-4000K-4.8W

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225484		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) x RCR = 5									
k = 0.60	67	57	51	66	57	51	64	56	51	45
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	93	86	81	89	83	79	72
2.00	100	93	88	97	92	87	93	89	85	77
2.50	102	96	92	100	95	90	95	91	88	79
3.00	105	99	95	102	97	94	97	94	90	81
4.00	108	103	99	105	101	97	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	

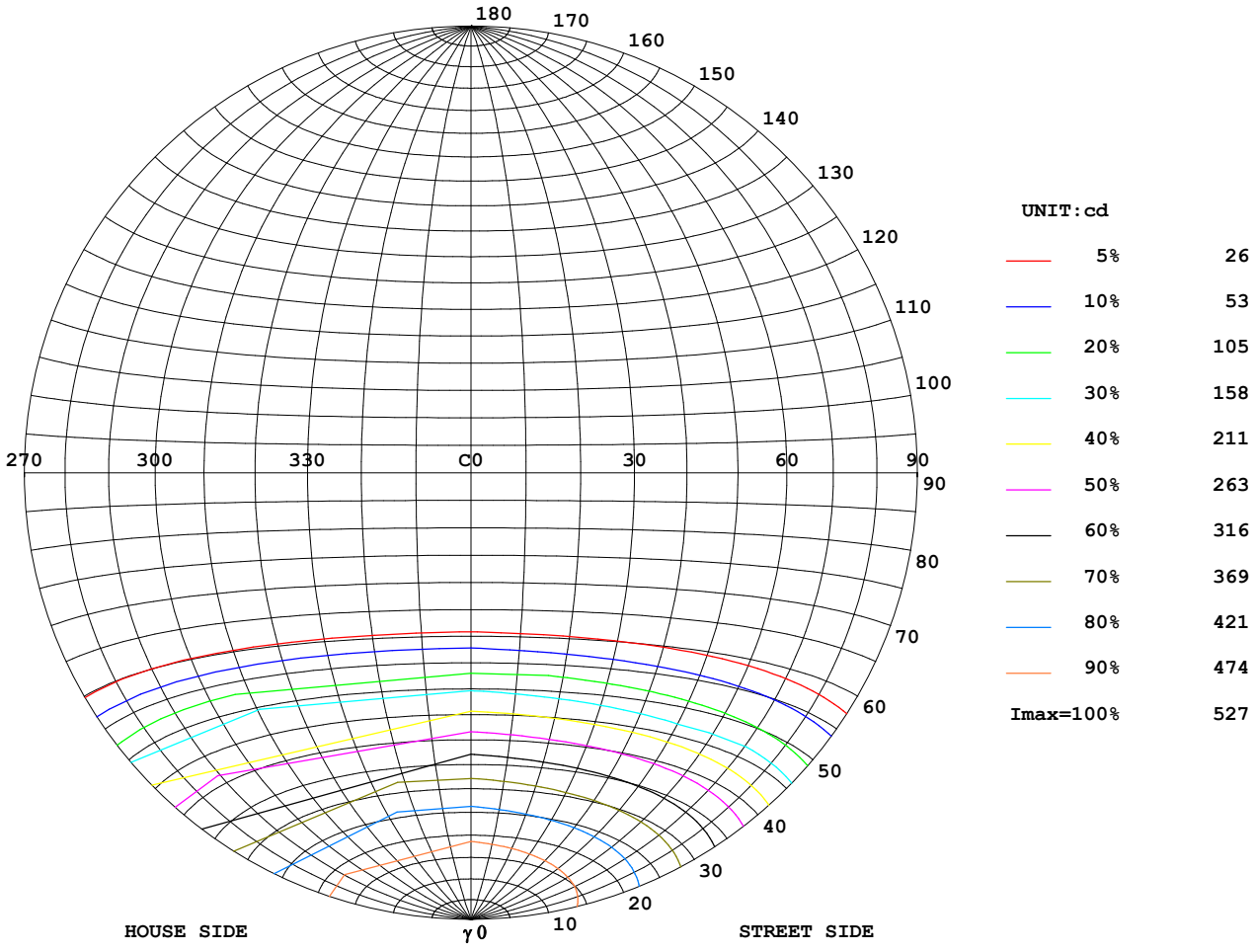
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023年08月12日

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-4000K-4.8W

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225484		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:



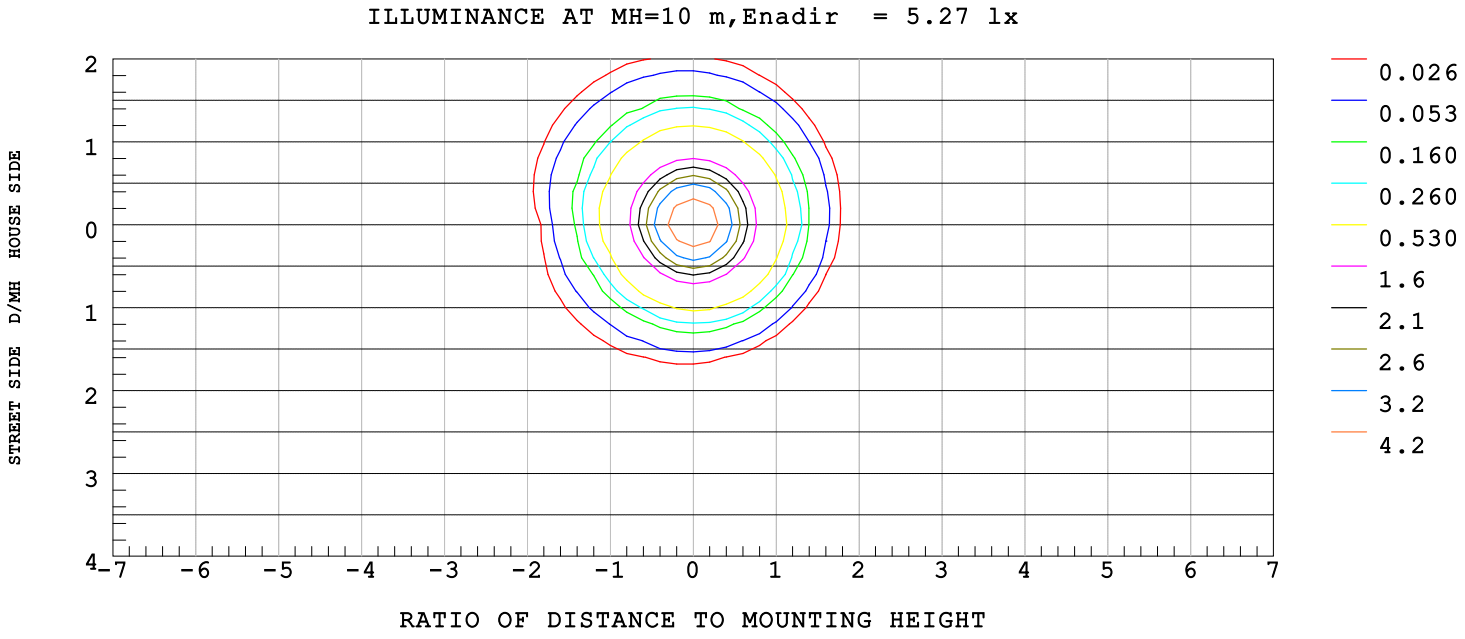
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023年08月12日

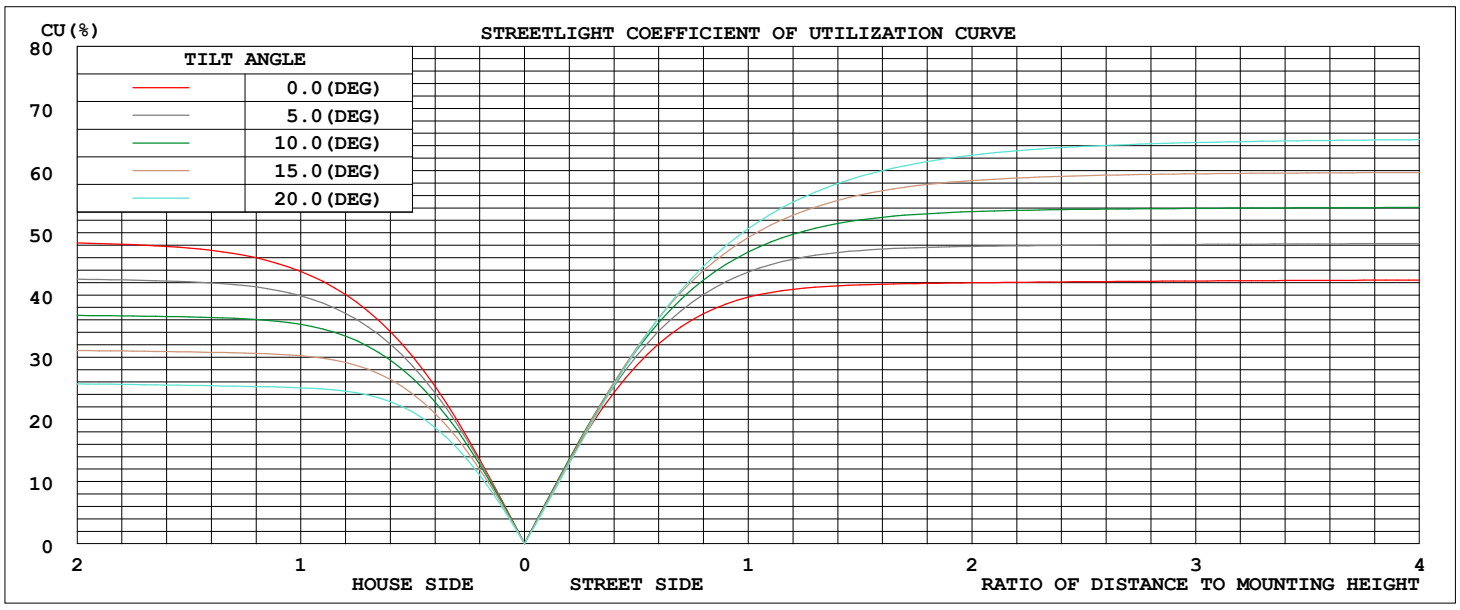
Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-4000K-4.8W

ISOLUX DIAGRAM

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225484		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:





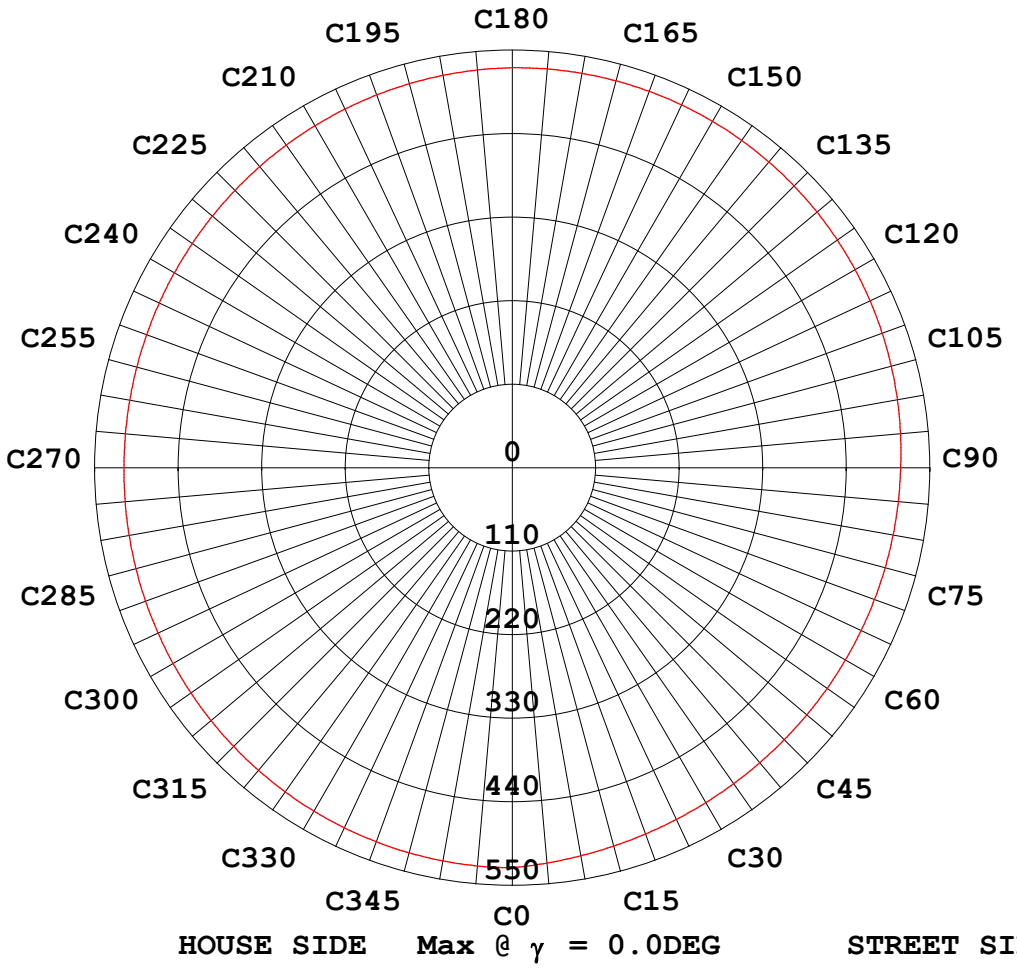
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023年08月12日

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-2835-180D-4000K-4.8W

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225484		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-4000K-4.8W

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: Havit			
Address: Unit 8 133 Beauchamp Rd Matraville,NSW2036			
NAME: HCP-3225484		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

UNIT: cd

γ (DEG) \ C(DEG)	0	90	180	270
0.0	527	511	527	511
5.0	523	506	523	511
10.0	512	490	512	508
15.0	493	469	493	497
20.0	466	439	466	477
25.0	431	398	431	448
30.0	390	350	389	413
35.0	340	296	340	370
40.0	284	236	283	319
45.0	221	172	220	261
50.0	155	94.3	153	198
55.0	84.4	43.3	74.2	132
60.0	33.5	15.3	25.2	65.0
65.0	12.0	10.2	5.03	24.3
70.0	11.5	9.81	4.46	11.2
75.0	11.4	9.98	5.27	8.52
80.0	11.6	10.3	6.04	8.19
85.0	11.9	10.7	6.97	8.43
90.0	12.2	11.1	7.95	8.92
95.0	12.4	11.4	8.76	9.45
100.0	12.7	11.6	9.53	10.0
105.0	12.8	11.7	10.2	10.5
110.0	12.9	11.7	10.7	11.0
115.0	12.9	11.7	11.3	11.5
120.0	12.8	11.6	11.7	11.5
125.0	12.5	11.4	12.0	11.7
130.0	12.4	11.8	12.4	11.8
135.0	12.3	11.9	12.3	11.9
140.0	12.3	11.8	12.3	11.8
145.0	12.2	11.8	12.2	11.8
150.0	12.2	11.7	12.2	11.7
155.0	12.2	11.7	12.2	11.7
160.0	12.1	11.7	12.1	11.7
165.0	12.1	11.6	12.1	11.6
170.0	12.0	11.6	12.0	11.6
175.0	12.0	11.6	12.0	11.6
180.0	12.0	11.6	12.0	11.6

Test System:HOPOO HP880
Temperature:25.3DEG
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