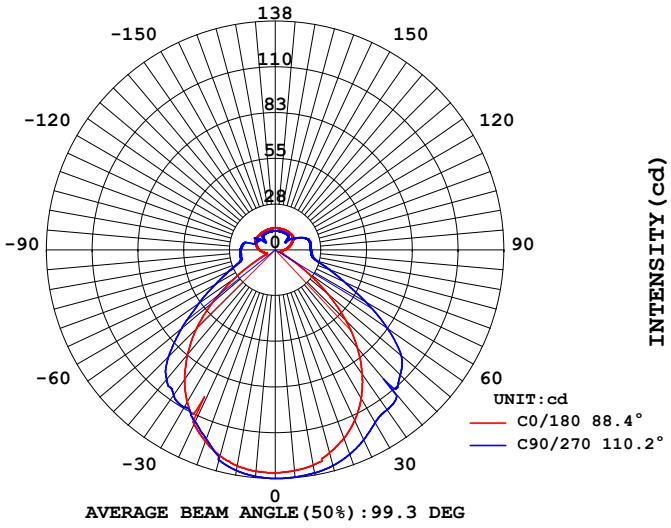
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965962		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

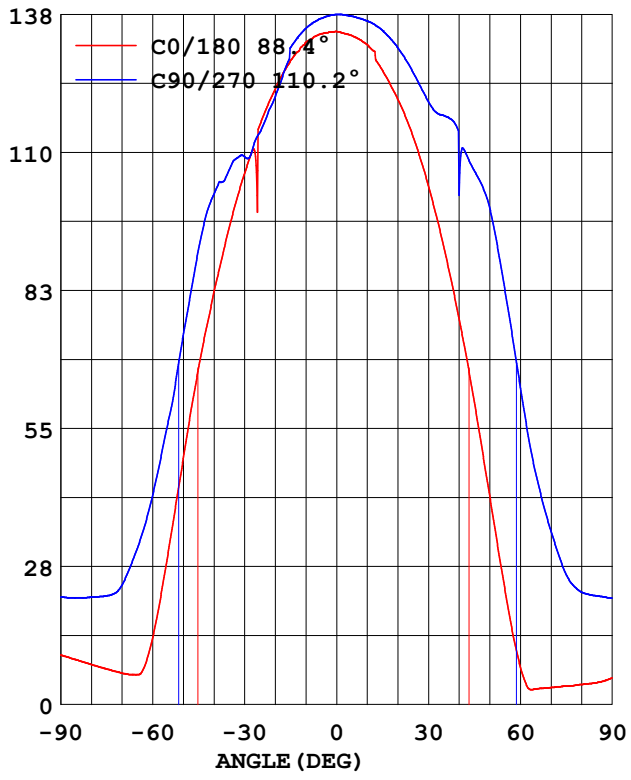
DATA OF LAMP		Imax(cd)	138.0	S/MH(C0/180)	1.18
MODEL	24V-480D-2700K	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.21
NOMINAL POWER(W)	5	TOTAL FLUX(lm)	409.7	Voltage(V)	23.95
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	84.0	Current(A)	0.203
NOMINAL FLUX(lm)	409.7	η up(%)	21.0	Power(W)	4.880
LAMPS QUANTITY	1	η down(%)	79.0	Power Factor(PF)	1.000
TEST VOLTAGE(V)	24.0	Effictive Flux(lm)	341.6	EEI	0.148

LUMINOUS INTENSITY DISTRIBUTION



AVERAGE BEAM ANGLE(50%):99.3 DEG

LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-9.6W/IP67

Color Temperature Data List

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965962		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

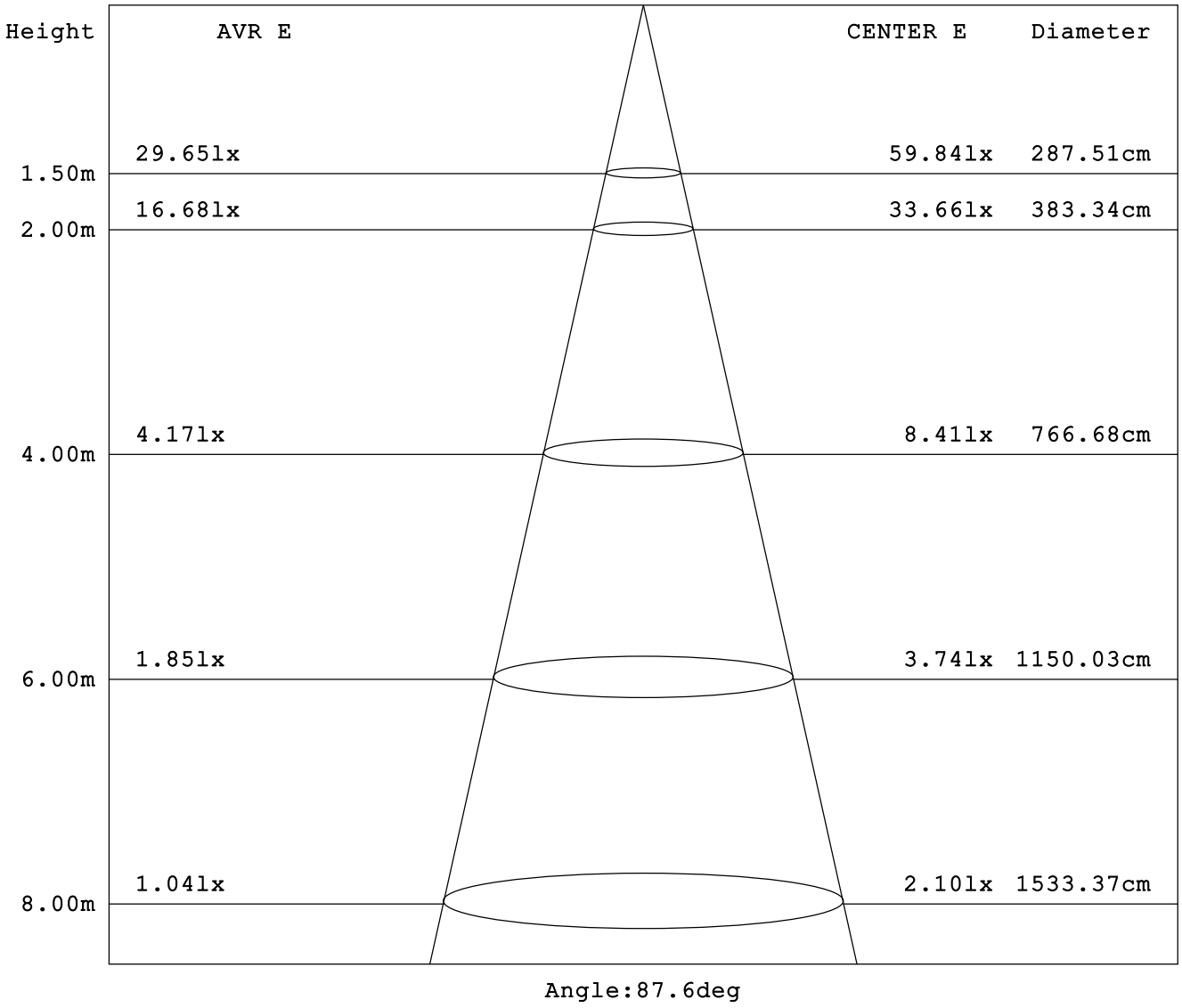
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-9.6W/IP67

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965962		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:



Angle:87.6deg

Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-9.6W/IP67

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965962		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

γ	C0	C90	C180	C270					γ	zone	total
5.0	134.1	137.2	133.8	137.6					0- 5	3.122	3.122
10.0	132.5	135.3	132.0	136.7					5- 10	9.273	12.39
15.0	128.9	131.6	127.1	134.9					10- 15	15.09	27.49
20.0	123.6	122.2	121.5	131.7					15- 20	20.20	47.70
25.0	116.7	114.9	114.4	127.0					20- 25	24.50	72.21
30.0	107.3	109.2	105.0	121.2					25- 30	27.75	99.96
35.0	97.10	107.9	93.44	117.9					30- 35	30.46	130.4
40.0	84.68	103.2	79.57	115.6					35- 40	32.11	162.5
45.0	70.27	93.77	63.62	107.7					40- 45	31.98	194.5
50.0	53.03	77.29	45.40	101.4					45- 50	29.90	224.4
55.0	34.24	59.36	26.90	86.79					50- 55	25.48	249.9
60.0	16.79	45.08	10.54	68.12					55- 60	19.36	269.2
65.0	6.329	33.59	3.002	50.03					60- 65	13.40	282.6
70.0	6.127	25.64	3.286	37.53					65- 70	10.07	292.7
75.0	6.857	21.91	3.611	28.16					70- 75	8.359	301.1
80.0	7.709	21.54	3.895	23.16					75- 80	7.530	308.6
85.0	8.642	21.34	4.219	21.87					80- 85	7.426	316.0
90.0	9.576	21.42	4.909	21.42					85- 90	7.581	323.6
95.0	10.50	20.85	6.045	21.18					90- 95	7.799	331.4
100.0	11.23	20.41	7.060	21.38					95-100	7.928	339.3
105.0	11.92	19.39	8.196	21.34					100-105	8.013	347.4
110.0	12.57	13.02	9.413	20.81					105-110	7.507	354.9
115.0	13.10	12.57	10.50	18.78					110-115	6.999	361.9
120.0	13.51	11.88	11.60	15.90					115-120	6.571	368.4
125.0	13.63	12.70	12.65	12.70					120-125	6.152	374.6
130.0	13.47	7.669	13.06	7.669					125-130	5.260	379.8
135.0	13.30	9.738	13.30	9.738					130-135	4.525	384.4
140.0	13.30	11.52	13.30	11.52					135-140	4.596	389.0
145.0	13.30	11.76	13.30	11.76					140-145	4.352	393.3
150.0	13.26	11.72	13.26	11.72					145-150	3.899	397.2
155.0	13.26	11.68	13.26	11.68					150-155	3.408	400.6
160.0	13.26	11.64	13.26	11.64					155-160	2.899	403.5
165.0	13.22	11.60	13.22	11.60					160-165	2.368	405.9
170.0	13.22	11.60	13.22	11.60					165-170	1.821	407.7
175.0	13.22	11.56	13.22	11.56					170-175	1.265	409.0
180.0	13.18	11.56	13.18	11.56					175-180	0.702	409.7
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-9.6W/IP67

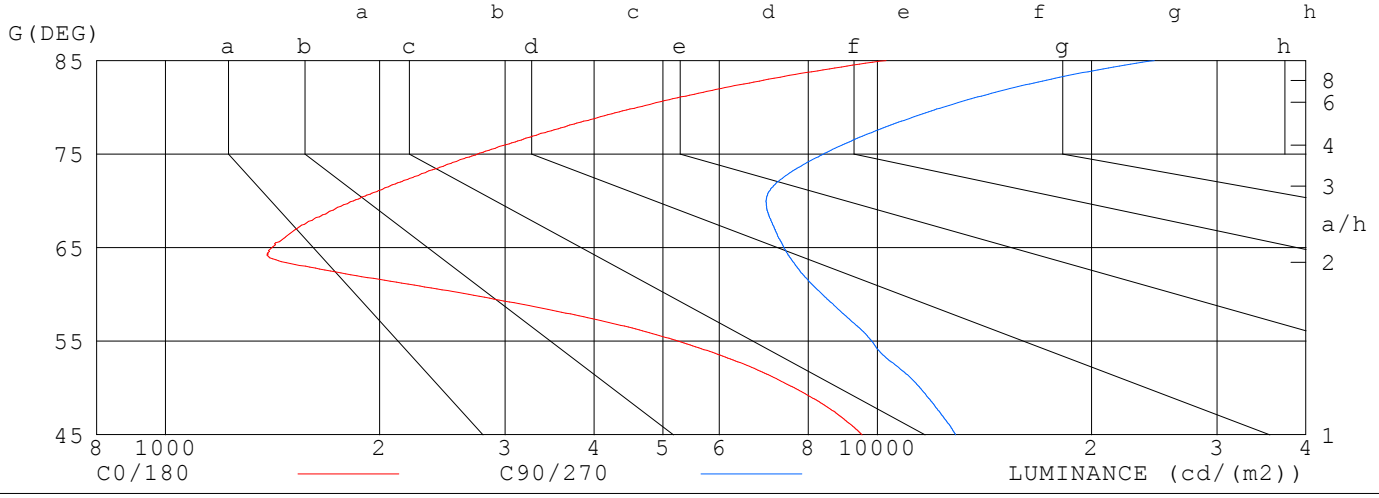
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965962		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	10242	24489
80	4603	12361
75	2744	8403
70	1827	7012
65	1411	7431
60	2719	8424
55	5313	9869
50	7708	11540
45	9566	12923

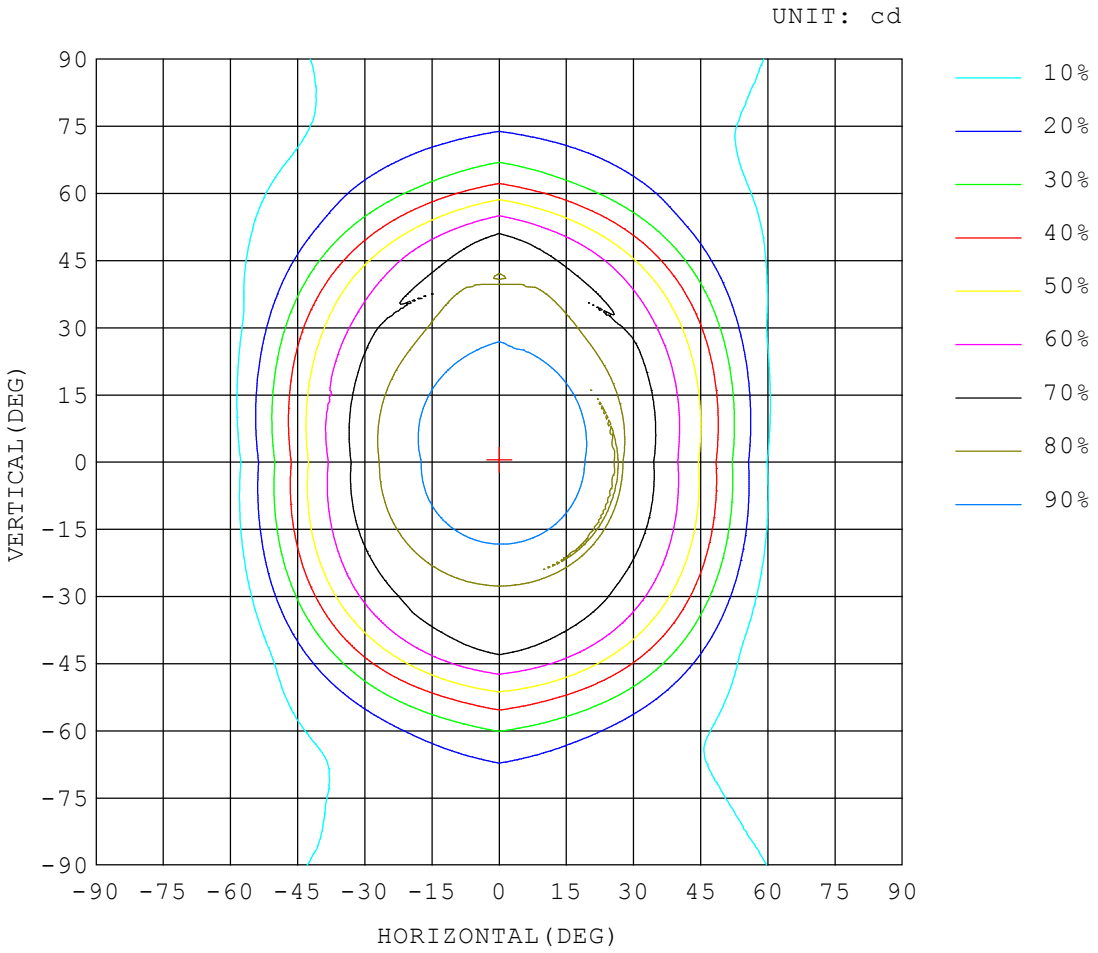
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-9.6W/IP67

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965962		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:



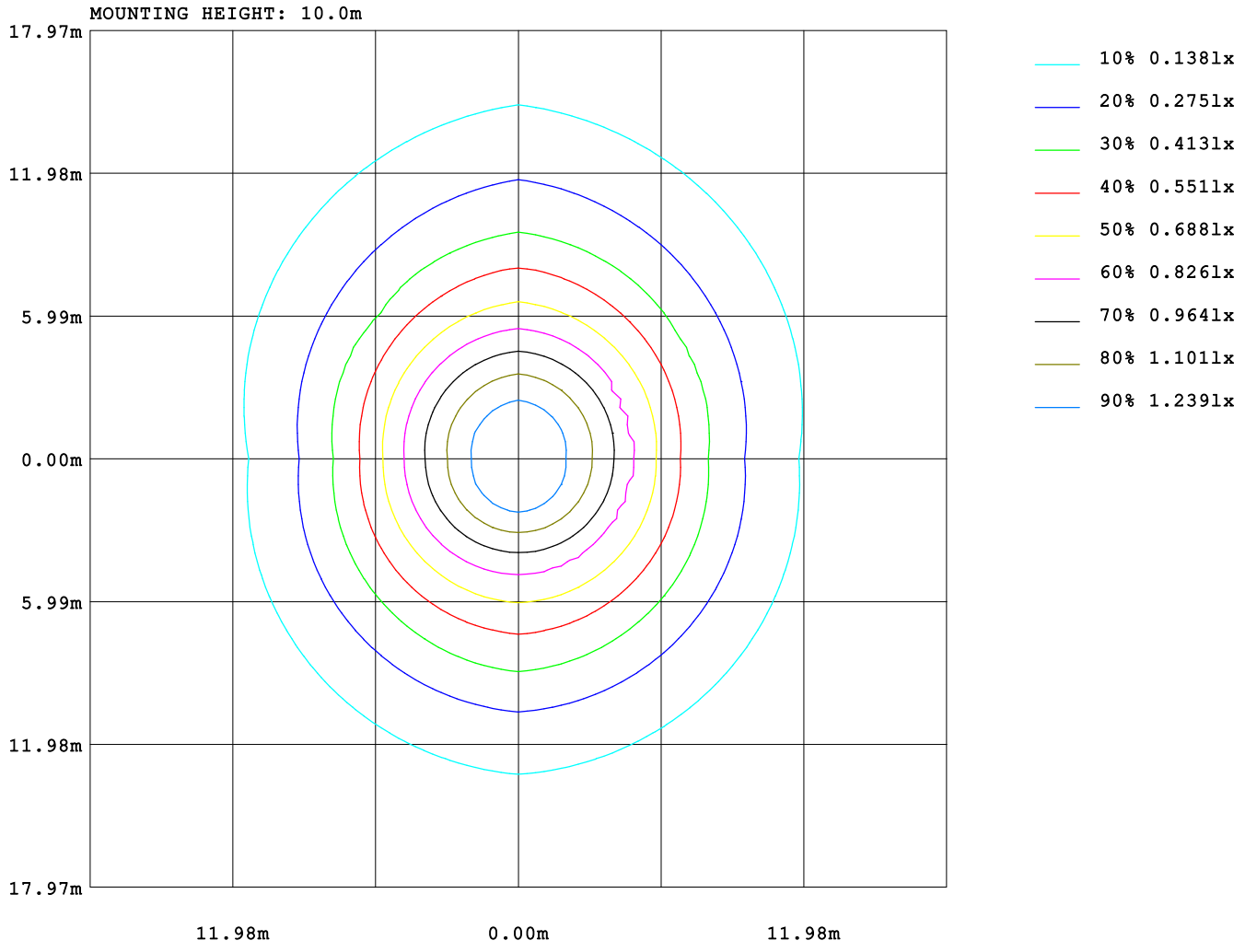
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-9.6W/IP67

ISOLUX DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965962		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:



Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-9.6W/IP67

AREA LUMINOUS FLUX

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965962		TYPE:	WEIGHT:
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	0.12	0.20	0.28	0.37	0.47	0.55	0.63	0.64	0.58	0.50	0.42	0.33	0.25	0.17	0.09	0.03	5.69	4.71
70	0.02	0.06	0.12	0.19	0.29	0.40	0.53	0.66	0.77	0.78	0.67	0.55	0.43	0.33	0.24	0.16	0.09	0.03	6.30	5.29
60	0.02	0.06	0.11	0.20	0.34	0.55	0.81	1.08	1.33	1.34	1.10	0.83	0.58	0.38	0.24	0.15	0.08	0.03	9.26	8.46
50	0.01	0.05	0.11	0.24	0.46	0.84	1.37	1.92	2.35	2.36	1.96	1.43	0.89	0.49	0.27	0.15	0.08	0.03	15.0	14.4
40	0.01	0.05	0.12	0.27	0.65	1.35	2.10	2.70	3.10	3.12	2.75	2.18	1.44	0.73	0.31	0.15	0.08	0.03	21.1	20.6
30	0.01	0.05	0.11	0.32	0.96	1.81	2.55	3.12	3.47	3.48	3.16	2.62	1.91	1.06	0.38	0.15	0.07	0.03	25.2	24.8
	0.01	0.04	0.10	0.40	1.19	2.09	2.86	3.40	3.75	3.75	3.42	2.91	2.18	1.31	0.49	0.14	0.07	0.02	28.2	27.7
	0.01	0.04	0.09	0.46	1.32	2.26	3.05	3.65	4.00	4.01	3.68	3.09	2.35	1.45	0.56	0.13	0.06	0.02	30.2	29.9
	0.01	0.03	0.06	0.45	1.33	2.30	3.13	3.74	4.08	4.09	3.78	3.17	2.39	1.47	0.57	0.11	0.06	0.02	30.8	30.5
	0.01	0.03	0.06	0.43	1.31	2.28	3.10	3.70	4.07	4.07	3.74	3.13	2.37	1.45	0.55	0.10	0.06	0.02	30.5	30.2
	0.01	0.04	0.07	0.40	1.25	2.20	2.95	3.51	3.86	3.87	3.53	2.99	2.28	1.38	0.51	0.11	0.06	0.02	29.1	28.7
-30	0.01	0.04	0.08	0.33	1.06	1.98	2.72	3.19	3.44	3.45	3.21	2.77	2.08	1.18	0.41	0.12	0.07	0.02	26.2	25.7
-40	0.01	0.04	0.09	0.24	0.77	1.57	2.35	2.89	3.17	3.19	2.92	2.42	1.68	0.87	0.30	0.12	0.07	0.02	22.7	22.2
-50	0.01	0.05	0.10	0.19	0.47	1.03	1.68	2.25	2.63	2.64	2.30	1.76	1.11	0.55	0.23	0.13	0.08	0.03	17.2	16.5
-60	0.01	0.05	0.10	0.18	0.32	0.58	0.96	1.34	1.63	1.64	1.38	1.01	0.63	0.36	0.21	0.14	0.08	0.03	10.6	9.75
-70	0.02	0.05	0.11	0.18	0.27	0.40	0.56	0.74	0.90	0.91	0.76	0.58	0.43	0.31	0.22	0.15	0.08	0.03	6.68	5.48
-80	0.02	0.06	0.11	0.19	0.27	0.36	0.46	0.55	0.63	0.64	0.57	0.49	0.40	0.31	0.23	0.16	0.09	0.03	5.55	4.37
-90	0.02	0.06	0.12	0.20	0.28	0.37	0.46	0.55	0.62	0.63	0.57	0.49	0.41	0.33	0.25	0.16	0.09	0.03	5.63	4.61
HORIZONTAL(DEG)																				
Φ t	0.26	0.86	1.79	5.05	12.8	22.7	32.1	39.6	44.5	44.6	40.1	32.9	24.0	14.3	6.21	2.47	1.35	0.46	410	
Φ a	0.00	0.00	0.00	2.95	11.4	22.6	32.1	39.6	44.5	44.6	40.1	32.9	24.0	14.1	4.87	0.02	0.00	0.00		342

Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

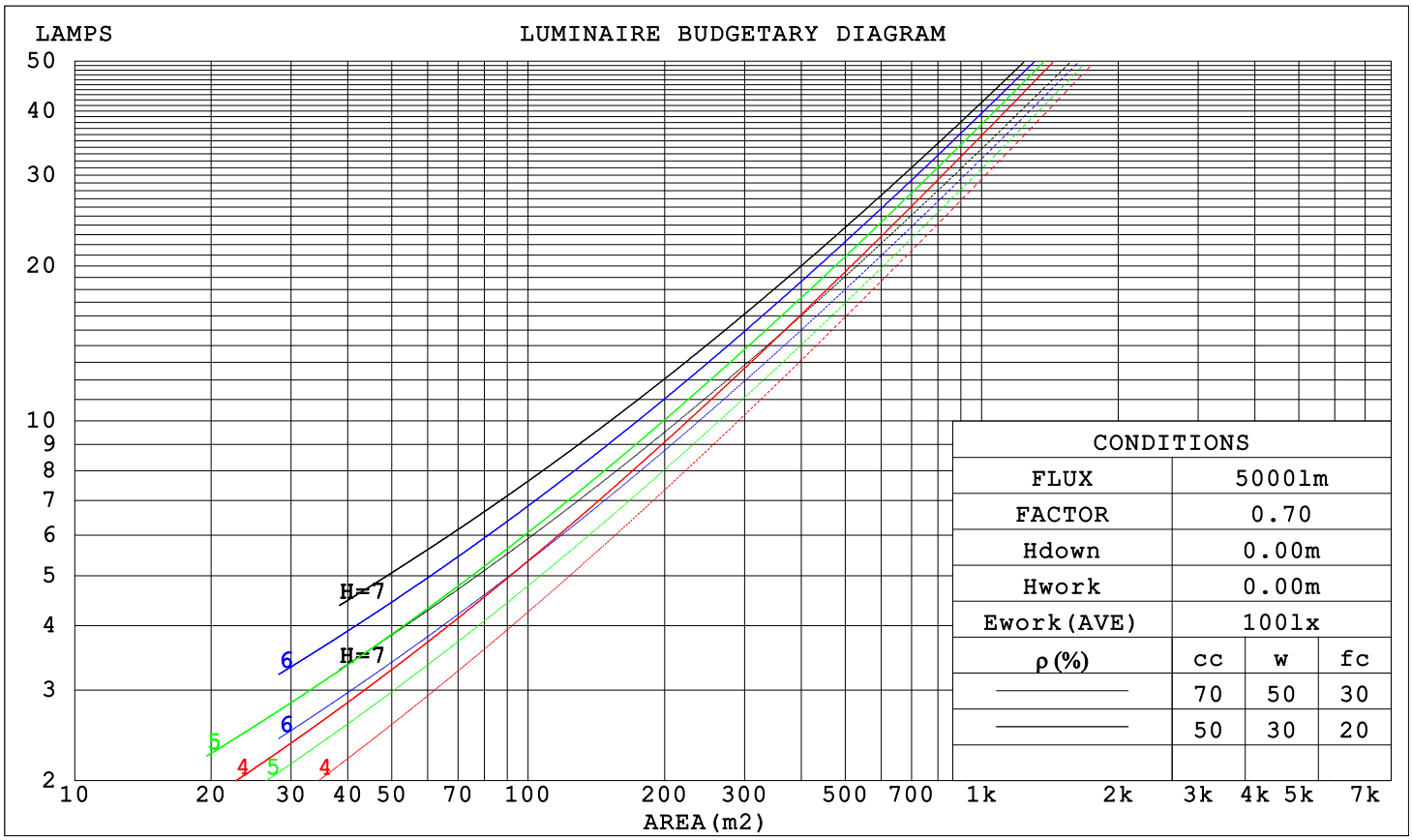
Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-9.6W/IP67

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965962		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

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	1.14	1.14	1.14	1.09	1.09	1.09	.99	.99	.99	.91	.91	.91	.83	.83	.83	.79
1.0	.99	.95	.91	.95	.91	.88	.87	.84	.81	.80	.77	.75	.73	.71	.69	.66
2.0	.87	.81	.76	.84	.78	.73	.77	.72	.68	.71	.67	.64	.65	.62	.59	.56
3.0	.77	.70	.64	.74	.67	.62	.68	.63	.58	.63	.58	.55	.58	.54	.51	.48
4.0	.69	.61	.55	.66	.59	.53	.61	.55	.50	.57	.51	.47	.52	.48	.45	.42
5.0	.62	.54	.47	.60	.52	.46	.55	.49	.44	.51	.46	.41	.47	.43	.39	.37
6.0	.56	.48	.42	.54	.46	.41	.50	.43	.39	.46	.41	.37	.43	.38	.35	.32
7.0	.51	.43	.37	.49	.41	.36	.46	.39	.34	.42	.37	.33	.39	.35	.31	.29
8.0	.46	.38	.33	.45	.37	.32	.42	.35	.31	.39	.33	.29	.36	.32	.28	.26
9.0	.43	.35	.30	.41	.34	.29	.38	.32	.28	.36	.30	.27	.34	.29	.25	.23
10.0	.39	.32	.27	.38	.31	.26	.36	.29	.25	.33	.28	.24	.31	.26	.23	.21



Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-9.6W/IP67

WEC AND CCEC

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965962		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

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	.300	.171	.054	.287	.164	.052	.262	.150	.048	.239	.138	.044	.218	.126	.041	
2.0	.272	.149	.046	.260	.143	.044	.238	.132	.041	.217	.122	.038	.198	.112	.035	
3.0	.250	.133	.040	.239	.128	.038	.218	.118	.036	.200	.109	.034	.182	.101	.031	
4.0	.230	.120	.035	.221	.115	.034	.202	.107	.032	.185	.099	.030	.169	.092	.028	
5.0	.214	.109	.032	.205	.105	.031	.188	.098	.029	.172	.091	.027	.157	.084	.025	
6.0	.199	.100	.029	.191	.096	.028	.175	.090	.026	.161	.084	.025	.147	.078	.023	
7.0	.186	.092	.026	.178	.089	.025	.164	.083	.024	.151	.077	.022	.138	.072	.021	
8.0	.174	.085	.024	.167	.082	.023	.154	.077	.022	.142	.072	.021	.130	.067	.019	
9.0	.164	.079	.022	.157	.077	.021	.145	.072	.020	.134	.067	.019	.123	.063	.018	
10.0	.154	.074	.021	.148	.072	.020	.137	.067	.019	.127	.063	.018	.117	.059	.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	.351	.351	.351	.300	.300	.300	.204	.204	.204	.117	.117	.117	.038	.038	.038	
1.0	.341	.318	.296	.292	.273	.255	.200	.188	.176	.115	.109	.103	.037	.035	.033	
2.0	.332	.294	.263	.284	.253	.227	.195	.175	.158	.112	.102	.093	.036	.033	.030	
3.0	.324	.277	.241	.278	.239	.209	.191	.166	.146	.110	.097	.086	.035	.032	.028	
4.0	.316	.265	.225	.271	.229	.196	.187	.159	.138	.108	.093	.081	.035	.030	.027	
5.0	.309	.255	.214	.265	.220	.186	.183	.154	.132	.106	.090	.078	.034	.029	.026	
6.0	.302	.246	.206	.260	.213	.180	.179	.149	.127	.104	.088	.076	.034	.029	.025	
7.0	.296	.240	.201	.255	.208	.175	.176	.146	.124	.102	.086	.074	.033	.028	.024	
8.0	.290	.234	.196	.250	.203	.171	.173	.143	.121	.100	.084	.072	.033	.028	.024	
9.0	.284	.230	.193	.245	.199	.168	.170	.140	.119	.099	.083	.071	.032	.027	.024	
10.0	.279	.225	.190	.241	.196	.166	.167	.138	.118	.097	.081	.070	.032	.027	.023	

Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-9.6W/IP67

UGR Table

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965962		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	16.7	17.9	17.2	18.4	19.0	18.9	20.1	19.4	20.6	21.2
	3H	16.8	17.9	17.4	18.4	19.1	19.8	20.9	20.4	21.4	22.1
	4H	17.0	18.0	17.6	18.6	19.2	20.5	21.5	21.1	22.1	22.7
	6H	17.5	18.5	18.1	19.1	19.7	21.6	22.6	22.2	23.1	23.8
	8H	18.0	18.9	18.6	19.5	20.2	22.4	23.3	23.0	23.9	24.6
	12H	18.7	19.5	19.3	20.2	20.9	23.4	24.3	24.0	24.9	25.6
4H	2H	17.0	18.0	17.5	18.5	19.2	18.8	19.9	19.4	20.4	21.1
	3H	17.3	18.2	17.9	18.8	19.5	20.0	20.9	20.6	21.5	22.2
	4H	17.7	18.5	18.4	19.2	19.9	20.9	21.7	21.6	22.3	23.1
	6H	18.6	19.3	19.3	19.9	20.7	22.4	23.1	23.0	23.7	24.5
	8H	19.2	19.9	19.9	20.6	21.4	23.3	24.0	24.0	24.7	25.5
	12H	20.1	20.7	20.9	21.4	22.3	24.6	25.2	25.3	25.9	26.7
8H	4H	18.3	19.0	19.0	19.7	20.5	21.0	21.7	21.7	22.4	23.2
	6H	19.6	20.1	20.3	20.9	21.7	22.8	23.4	23.5	24.1	24.9
	8H	20.5	21.0	21.3	21.7	22.6	24.0	24.5	24.8	25.3	26.1
	12H	21.7	22.1	22.5	22.9	23.8	25.6	26.0	26.3	26.7	27.6
12H	4H	18.6	19.2	19.3	19.9	20.7	21.1	21.7	21.8	22.4	23.2
	6H	20.1	20.5	20.8	21.3	22.1	22.9	23.4	23.7	24.2	25.0
	8H	21.1	21.6	21.9	22.3	23.2	24.3	24.7	25.0	25.4	26.3

Variations with the observer position at spacings:		
S = 1.0H	+ 0.4 / - 0.4	+ 0.2 / - 0.2
1.5H	+ 0.2 / - 0.3	+ 0.2 / - 0.2
2.0H	+ 0.7 / - 0.7	+ 0.3 / - 0.5

CIE Pub.117 Corrected 409.7 lm Total Lamp Luminous Flux.(8log(F/F0) = -3.1)

Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-9.6W/IP67

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965962		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	54	42	36	52	42	36	50	41	35	29
0.80	63	52	45	62	51	44	59	49	43	36
1.00	71	60	53	69	59	53	66	59	51	43
1.25	78	68	61	76	66	59	71	63	57	48
1.50	83	73	66	80	71	65	75	68	62	52
2.00	89	81	74	86	78	72	80	74	69	57
2.50	93	85	79	90	82	76	83	77	72	60
3.00	96	89	83	93	86	81	86	80	76	63
4.00	100	94	89	96	90	86	88	84	80	66
5.00	102	97	92	98	93	89	90	87	83	68
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

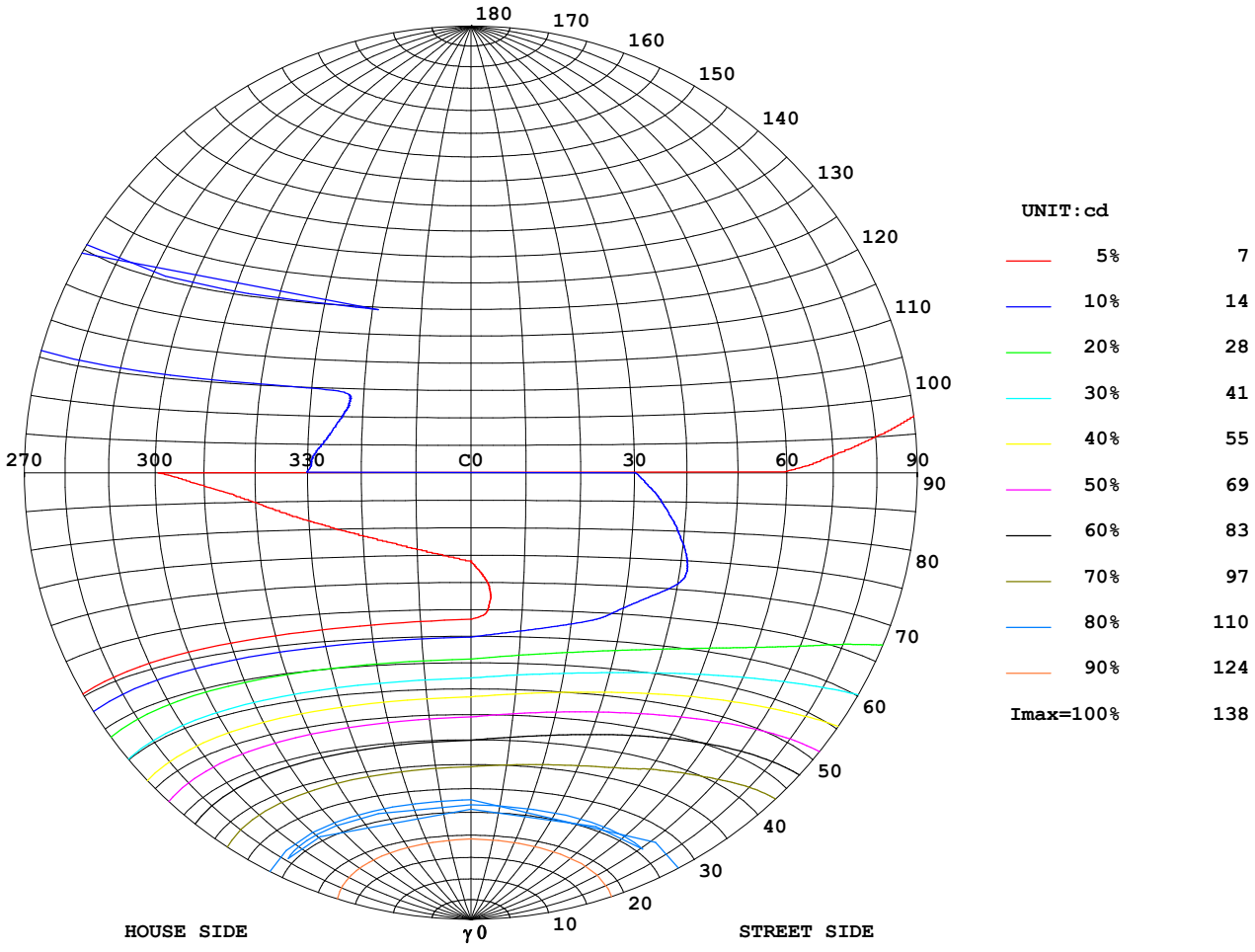
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-9.6W/IP67

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965962		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:



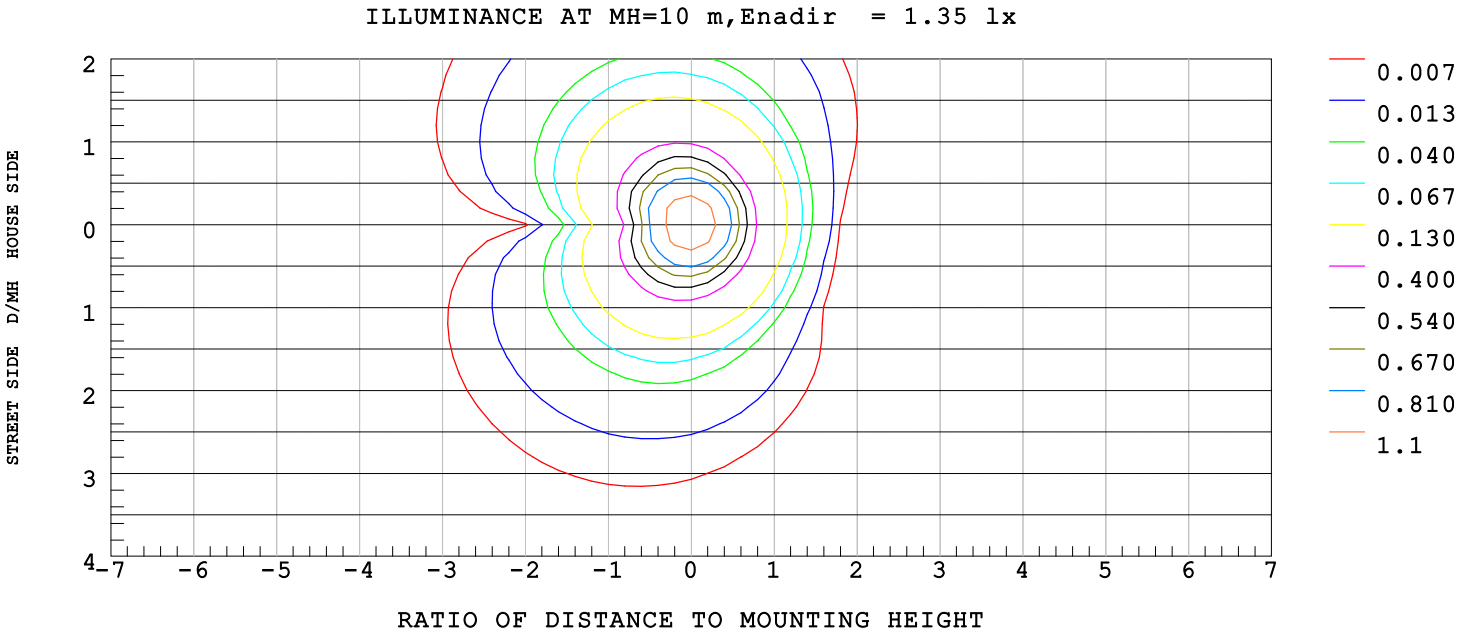
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

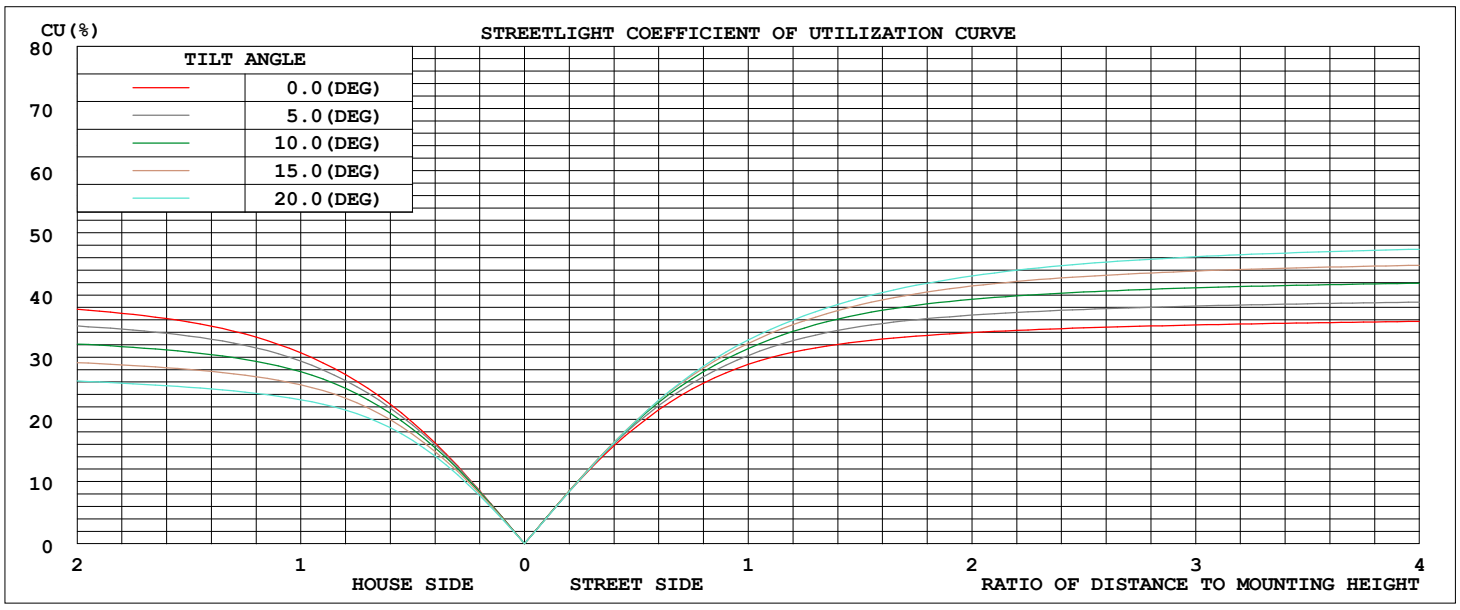
Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-9.6W/IP67

ISOLUX DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965962		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:





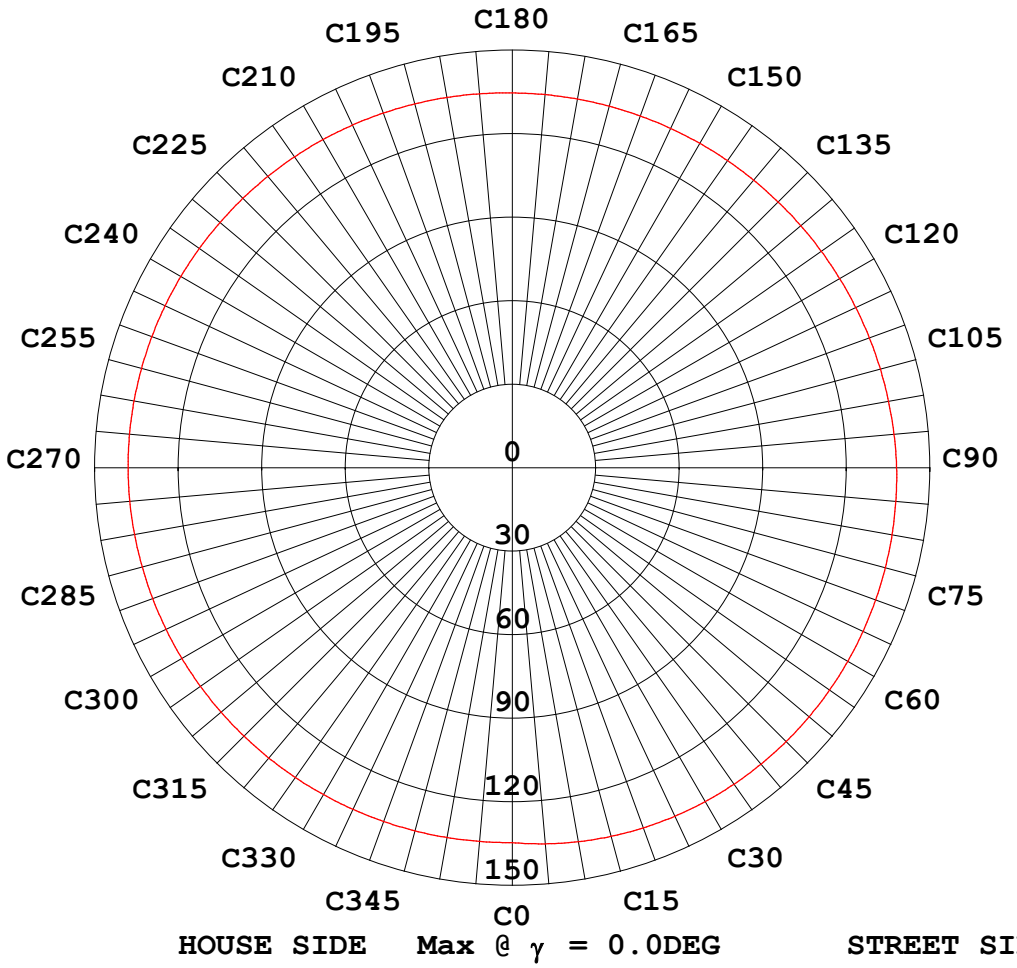
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-9.6W/IP67

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965962		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:



Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-9.6W/IP67

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965962		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

UNIT: cd

γ (DEG) \ C(DEG)	0	90	180	270
0.0	135	138	135	138
5.0	134	137	134	138
10.0	132	135	132	137
15.0	129	131	127	135
20.0	123	122	121	131
25.0	116	115	114	127
30.0	106	109	104	121
35.0	95.6	107	91.8	118
40.0	82.7	102	77.4	108
45.0	67.6	91.3	60.7	107
50.0	49.5	74.1	42.0	99.5
55.0	30.4	56.6	23.2	83.1
60.0	13.5	42.1	7.79	63.9
65.0	5.96	31.4	3.08	46.5
70.0	6.24	23.9	3.36	34.8
75.0	7.10	21.7	3.65	26.0
80.0	7.99	21.4	4.01	22.4
85.0	8.92	21.3	4.34	21.7
90.0	9.90	21.5	5.31	21.2
95.0	10.7	20.6	6.41	21.1
100.0	11.5	20.1	7.50	21.5
105.0	12.2	16.8	8.68	21.1
110.0	12.8	12.9	9.86	20.0
115.0	13.3	12.3	10.9	17.5
120.0	13.5	14.3	12.1	14.3
125.0	13.5	11.6	12.9	11.6
130.0	13.3	8.60	13.3	8.60
135.0	13.3	10.9	13.3	10.9
140.0	13.3	11.7	13.3	11.7
145.0	13.3	11.7	13.3	11.7
150.0	13.2	11.6	13.2	11.6
155.0	13.2	11.6	13.2	11.6
160.0	13.2	11.6	13.2	11.6
165.0	13.2	11.6	13.2	11.6
170.0	13.2	11.5	13.2	11.5
175.0	13.1	11.5	13.1	11.5
180.0	13.1	11.5	13.1	11.5

Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-9.6W/IP67