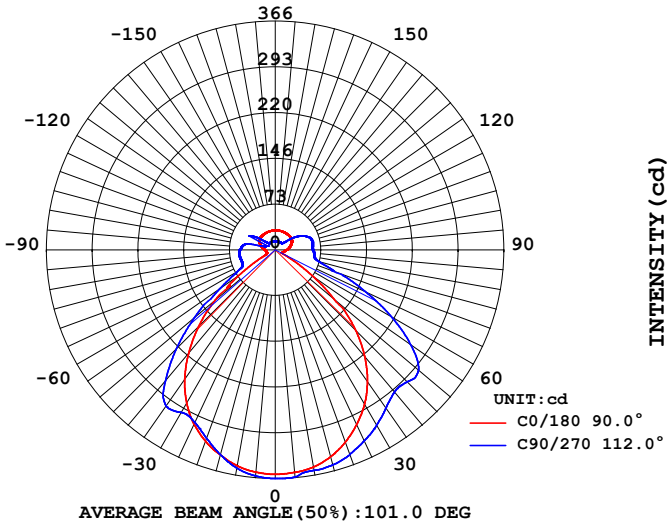
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

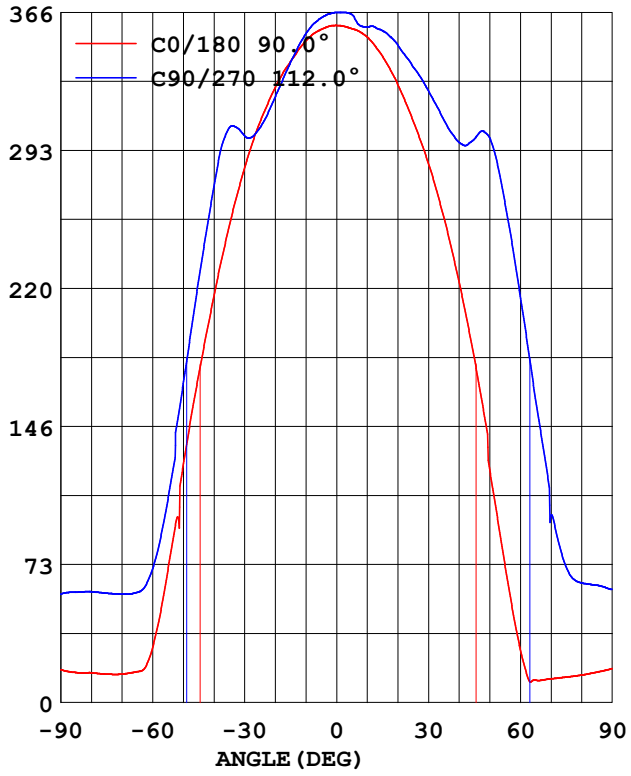
DATA OF LAMP		Imax(cd)	366.1	S/MH(C0/180)	1.18
MODEL	24V-480D-2700K	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.27
NOMINAL POWER(W)	12	TOTAL FLUX(lm)	1075.5	Voltage(V)	23.92
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	84.1	Current(A)	0.534
NOMINAL FLUX(lm)	1075.5	η up(%)	18.6	Power(W)	12.79
LAMPS QUANTITY	1	η down(%)	81.4	Power Factor(PF)	1.000
TEST VOLTAGE(V)	23.9	Effictive Flux(lm)	931.4	EEI	0.176

LUMINOUS INTENSITY DISTRIBUTION



AVERAGE BEAM ANGLE(50%):101.0 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-14.4W/IP67

Color Temperature Data List

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

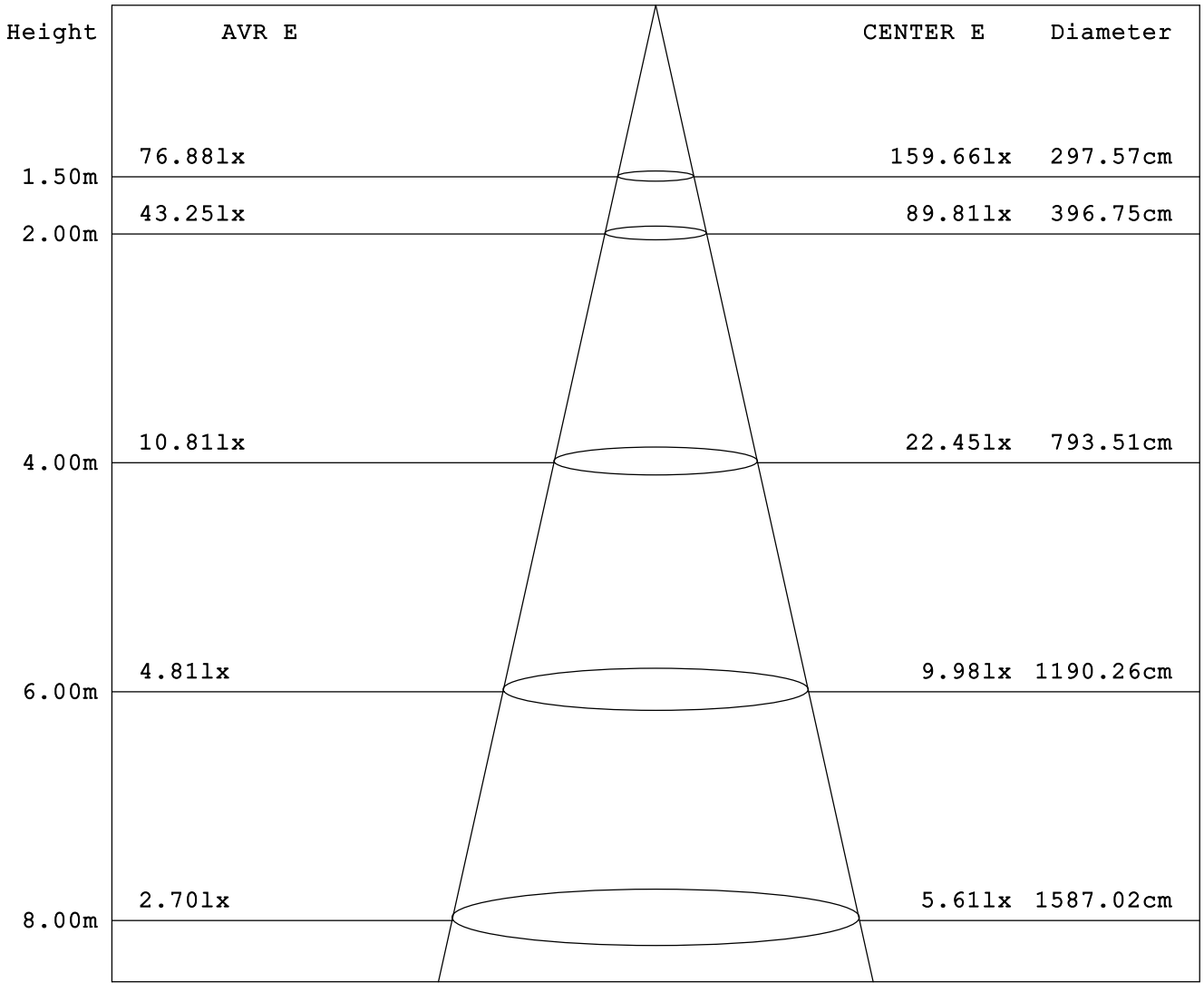
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP67

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:



Angle:89.5deg

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-14.4W/IP67

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

γ	C0	C90	C180	C270					γ	zone	total
5.0	357.1	363.3	357.5	365.1					0- 5	8.306	8.306
10.0	351.2	355.2	353.3	358.3					5- 10	24.56	32.86
15.0	340.7	340.5	343.5	356.6					10- 15	39.90	72.76
20.0	327.6	322.7	329.3	349.8					15- 20	53.68	126.4
25.0	309.8	306.0	310.6	338.5					20- 25	65.35	191.8
30.0	286.8	299.7	288.9	326.2					25- 30	75.01	266.8
35.0	257.5	305.8	261.8	311.4					30- 35	82.95	349.7
40.0	221.9	281.0	228.9	298.4					35- 40	87.31	437.0
45.0	181.3	233.1	190.2	297.5					40- 45	86.13	523.2
50.0	135.9	179.7	145.3	301.6					45- 50	81.37	604.5
55.0	81.15	118.4	83.83	274.6					50- 55	69.09	673.6
60.0	37.20	77.54	37.37	227.8					55- 60	52.07	725.7
65.0	16.75	59.32	11.23	175.0					60- 65	36.86	762.6
70.0	15.33	57.41	12.29	123.4					65- 70	28.81	791.4
75.0	14.97	57.78	13.22	78.88					70- 75	23.07	814.5
80.0	15.45	58.55	14.20	64.31					75- 80	20.39	834.8
85.0	15.70	58.67	15.54	62.52					80- 85	20.22	855.1
90.0	16.63	58.26	17.24	60.78					85- 90	20.46	875.5
95.0	18.50	55.46	19.59	59.44					90- 95	20.49	896.0
100.0	20.61	52.66	21.83	60.41					95-100	20.63	916.7
105.0	22.96	44.10	23.85	60.94					100-105	20.50	937.2
110.0	25.44	18.54	25.92	59.60					105-110	17.77	955.0
115.0	27.71	16.06	28.03	55.22					110-115	16.21	971.2
120.0	29.78	13.71	29.70	48.69					115-120	15.17	986.3
125.0	31.36	39.40	30.75	39.40					120-125	17.10	1003
130.0	31.60	25.19	31.00	25.19					125-130	14.16	1018
135.0	31.60	16.92	31.60	16.92					130-135	10.65	1028
140.0	31.60	14.72	31.60	14.72					135-140	8.971	1037
145.0	31.60	14.72	31.60	14.72					140-145	8.062	1045
150.0	31.60	14.52	31.60	14.52					145-150	7.204	1053
155.0	31.60	14.40	31.60	14.40					150-155	6.291	1059
160.0	31.60	14.28	31.60	14.28					155-160	5.341	1064
165.0	31.56	14.20	31.56	14.20					160-165	4.360	1069
170.0	31.56	14.12	31.56	14.12					165-170	3.354	1072
175.0	31.56	14.03	31.56	14.03					170-175	2.329	1074
180.0	31.56	13.99	31.56	13.99					175-180	1.290	1076
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-14.4W/IP67

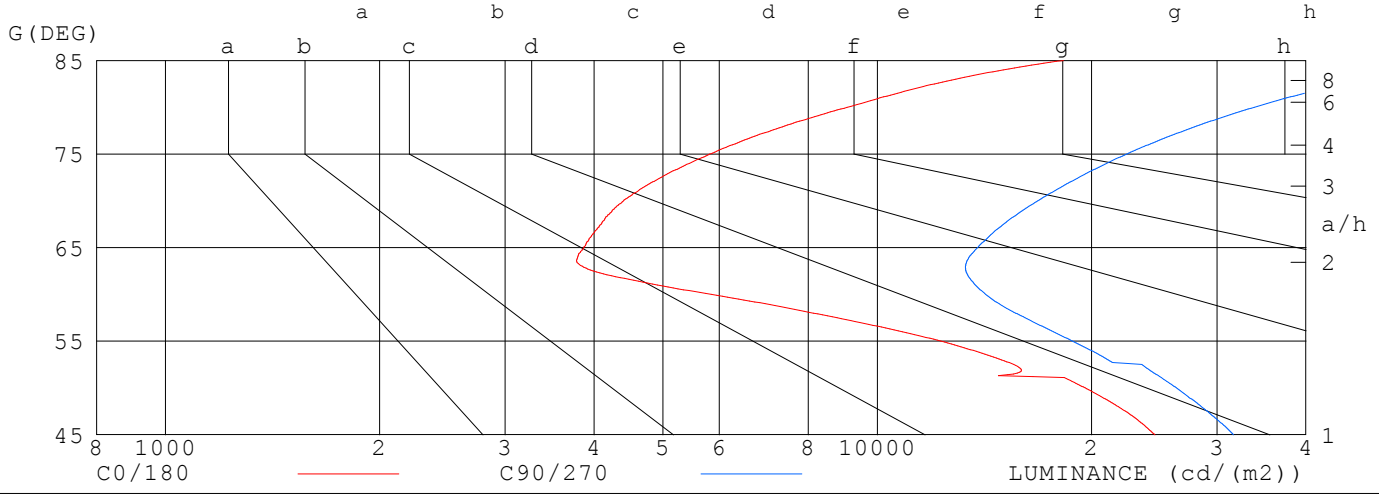
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965142		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	18204	67228
80	9067	33836
75	5816	22388
70	4402	16799
65	3879	13835
60	5965	14299
55	12458	18959
50	19740	26488
45	24664	31797

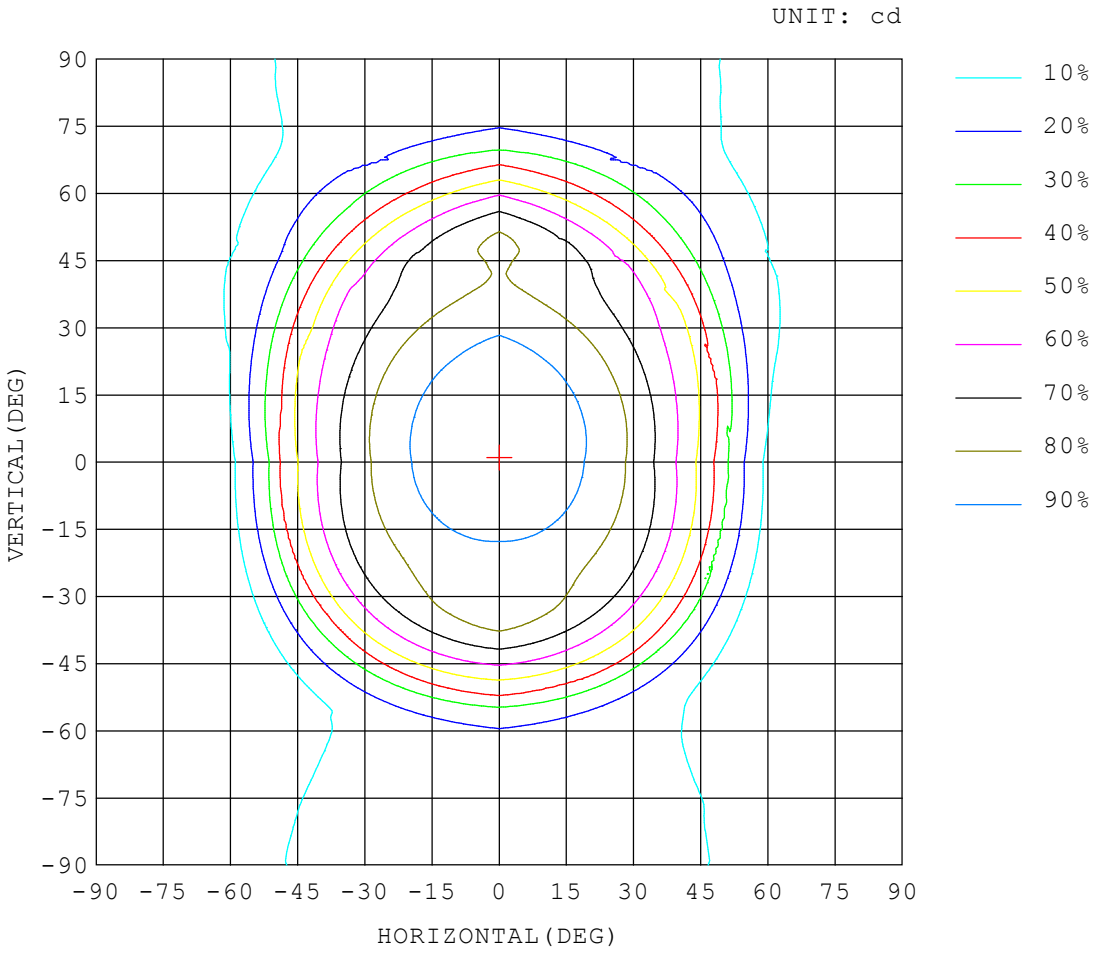
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP67

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:



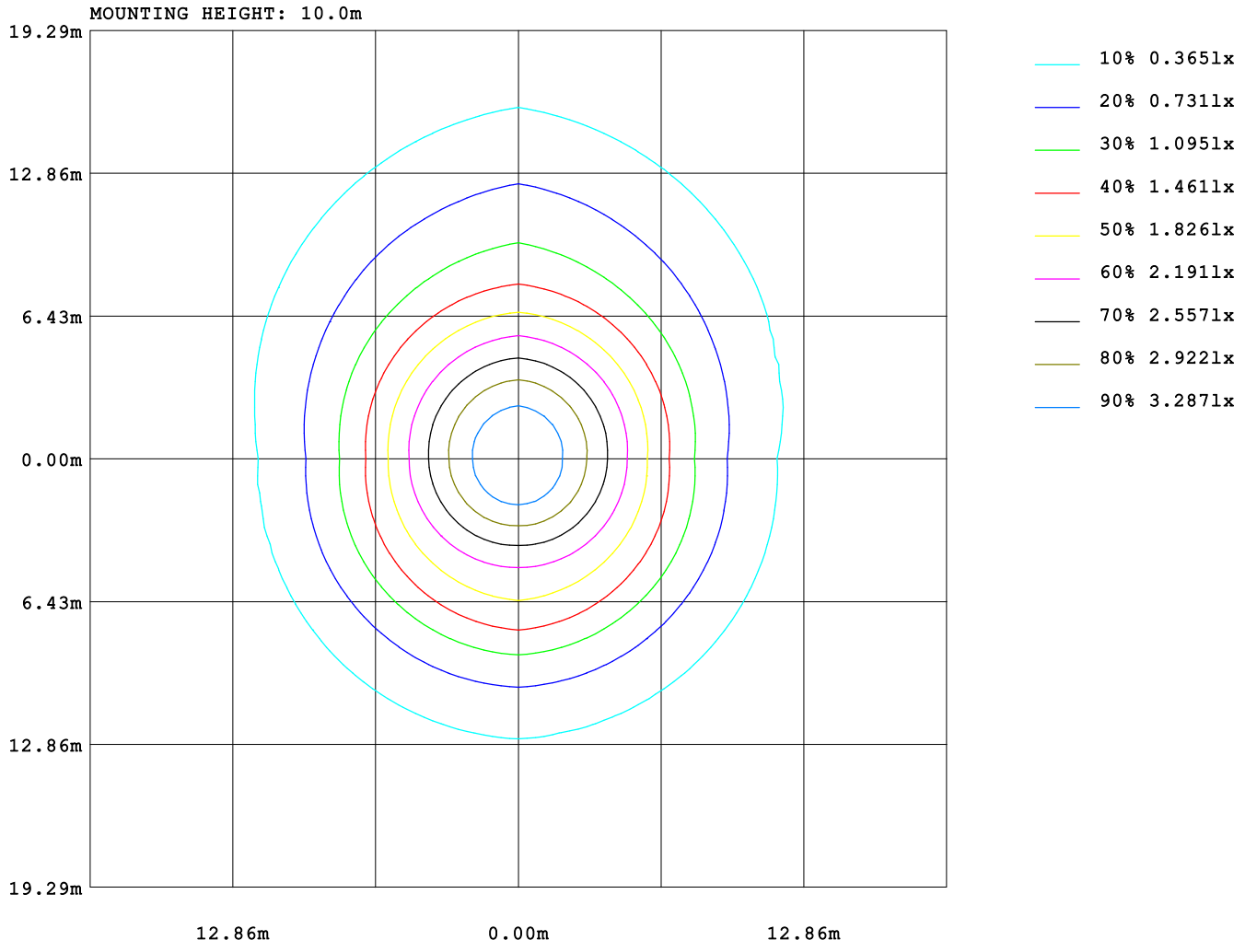
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP67

ISOLUX DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965142		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-14.4W/IP67

AREA LUMINOUS FLUX

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965142		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	0.06	0.20	0.38	0.60	0.84	1.09	1.35	1.59	1.79	1.79	1.59	1.35	1.09	0.84	0.59	0.37	0.19	0.05	15.8	13.3
70	0.05	0.19	0.37	0.58	0.84	1.14	1.49	1.85	2.17	2.18	1.86	1.50	1.15	0.85	0.59	0.37	0.19	0.05	17.4	14.9
60	0.05	0.18	0.35	0.60	1.02	1.73	2.67	3.68	4.55	4.56	3.70	2.70	1.76	1.04	0.61	0.36	0.18	0.05	29.8	27.7
50	0.05	0.17	0.35	0.74	1.56	2.89	4.59	6.24	7.52	7.52	6.22	4.59	2.92	1.61	0.77	0.36	0.18	0.05	48.3	46.9
40	0.05	0.16	0.37	0.93	2.22	4.30	6.37	7.85	8.77	8.76	7.80	6.32	4.27	2.24	0.98	0.39	0.17	0.05	62.0	60.9
30	0.05	0.15	0.38	1.11	3.02	5.38	7.11	8.37	9.19	9.18	8.32	7.01	5.29	2.99	1.15	0.41	0.16	0.05	69.3	68.3
	0.05	0.14	0.36	1.33	3.64	5.92	7.78	9.21	10.0	10.0	9.19	7.71	5.79	3.56	1.34	0.40	0.15	0.05	76.7	75.7
	0.04	0.13	0.31	1.46	3.95	6.31	8.32	9.81	10.6	10.6	9.79	8.28	6.18	3.83	1.43	0.36	0.14	0.04	81.7	80.7
	0.04	0.11	0.23	1.41	3.99	6.45	8.52	10.0	10.8	10.8	10.0	8.49	6.33	3.83	1.38	0.28	0.13	0.04	83.0	82.1
	0.04	0.11	0.19	1.31	3.90	6.43	8.43	9.95	10.8	10.7	9.89	8.39	6.31	3.74	1.27	0.24	0.12	0.04	82.0	81.1
	0.04	0.12	0.21	1.16	3.62	6.22	8.10	9.40	10.1	10.1	9.38	8.06	6.10	3.50	1.13	0.26	0.13	0.04	77.9	76.9
-30	0.05	0.13	0.23	0.86	2.94	5.53	7.64	8.75	9.25	9.25	8.73	7.57	5.40	2.86	0.87	0.27	0.15	0.05	70.5	69.3
-40	0.05	0.15	0.26	0.56	1.94	4.22	6.39	8.03	8.88	8.87	7.98	6.30	4.13	1.91	0.60	0.29	0.15	0.05	60.8	59.2
-50	0.05	0.16	0.29	0.45	1.02	2.40	4.15	5.65	6.56	6.54	5.60	4.10	2.37	1.04	0.50	0.31	0.16	0.05	41.4	39.1
-60	0.05	0.17	0.31	0.48	0.70	1.13	1.87	2.68	3.27	3.27	2.67	1.88	1.17	0.75	0.51	0.32	0.17	0.05	21.4	18.0
-70	0.05	0.18	0.33	0.52	0.73	0.97	1.21	1.48	1.73	1.73	1.50	1.24	1.00	0.76	0.54	0.34	0.18	0.05	14.5	10.9
-80	0.05	0.18	0.35	0.55	0.78	1.01	1.25	1.48	1.68	1.68	1.49	1.26	1.02	0.79	0.56	0.35	0.18	0.05	14.7	11.6
-90	0.05	0.19	0.37	0.58	0.81	1.04	1.28	1.51	1.70	1.70	1.51	1.28	1.04	0.80	0.57	0.36	0.19	0.05	15.0	12.2
HORIZONTAL(DEG)																				
Φ t	0.88	2.82	5.63	15.2	37.5	64.2	88.6	108	120	120	107	88.1	63.4	36.9	15.4	6.05	2.93	0.87	1076	
Φ a	0.00	0.00	0.11	10.2	35.2	64.0	88.6	108	120	120	107	88.1	63.4	34.9	10.3	0.37	0.00	0.00		931

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

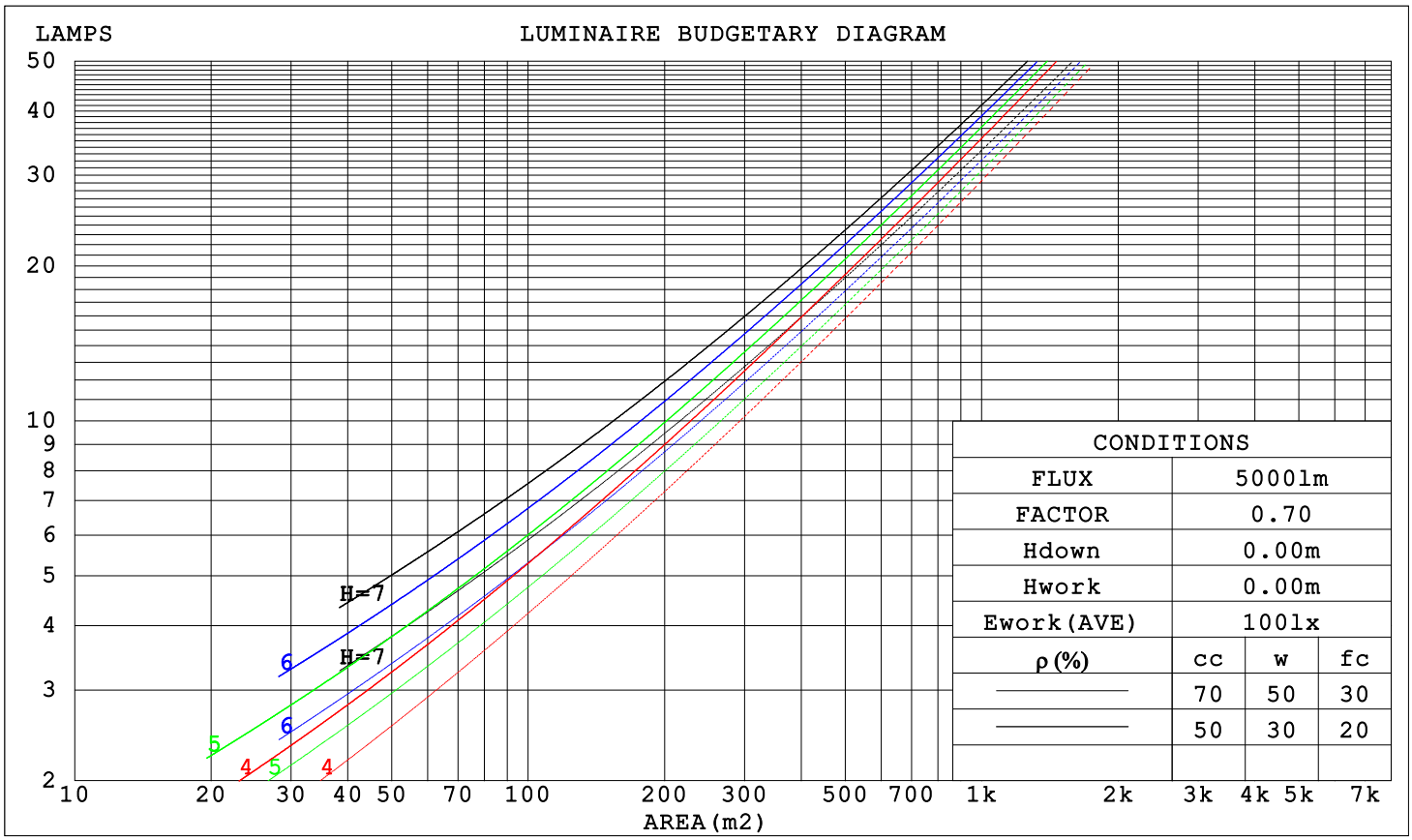
Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP67

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965142		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	1.15	1.15	1.15	1.10	1.10	1.10	1.01	1.01	1.01	.93	.93	.93	.85	.85	.85	.81
1.0	.00	.96	.92	.96	.92	.89	.88	.85	.82	.81	.79	.77	.75	.73	.71	.68
2.0	.88	.81	.76	.84	.79	.74	.78	.73	.69	.72	.68	.65	.66	.63	.61	.58
3.0	.78	.70	.64	.75	.68	.62	.69	.64	.59	.64	.59	.56	.59	.56	.52	.49
4.0	.69	.61	.55	.67	.59	.53	.62	.56	.51	.58	.52	.48	.53	.49	.46	.43
5.0	.62	.54	.48	.60	.52	.46	.56	.49	.44	.52	.46	.42	.48	.44	.40	.38
6.0	.56	.48	.42	.54	.46	.41	.51	.44	.39	.47	.42	.37	.44	.39	.35	.33
7.0	.51	.43	.37	.49	.42	.36	.46	.39	.35	.43	.37	.33	.40	.35	.32	.30
8.0	.47	.38	.33	.45	.38	.32	.42	.36	.31	.40	.34	.30	.37	.32	.29	.26
9.0	.43	.35	.30	.41	.34	.29	.39	.32	.28	.37	.31	.27	.34	.29	.26	.24
10.0	.39	.32	.27	.38	.31	.26	.36	.30	.25	.34	.28	.24	.32	.27	.24	.22



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-14.4W/IP67

WEC AND CCEC

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965142		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	.303	.172	.055	.290	.165	.053	.266	.153	.049	.244	.141	.045	.224	.130	.042	
2.0	.274	.150	.046	.263	.145	.045	.242	.134	.042	.222	.124	.039	.204	.115	.036	
3.0	.251	.134	.040	.241	.129	.039	.222	.120	.037	.204	.112	.034	.188	.104	.032	
4.0	.232	.121	.035	.223	.117	.034	.205	.109	.033	.189	.102	.031	.174	.095	.029	
5.0	.215	.110	.032	.207	.106	.031	.191	.099	.029	.176	.093	.028	.162	.087	.026	
6.0	.200	.100	.029	.192	.097	.028	.178	.091	.027	.164	.085	.025	.152	.080	.024	
7.0	.187	.092	.026	.180	.090	.026	.167	.084	.024	.154	.079	.023	.142	.074	.022	
8.0	.175	.086	.024	.169	.083	.023	.156	.078	.022	.145	.073	.021	.134	.069	.020	
9.0	.164	.080	.022	.159	.077	.022	.147	.073	.021	.137	.069	.020	.127	.064	.019	
10.0	.155	.074	.021	.150	.072	.020	.139	.068	.019	.129	.064	.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	.332	.332	.332	.284	.284	.284	.194	.194	.194	.111	.111	.111	.036	.036	.036	
1.0	.323	.299	.278	.276	.257	.239	.189	.177	.165	.109	.102	.096	.035	.033	.031	
2.0	.314	.276	.244	.269	.237	.211	.184	.164	.147	.106	.096	.086	.034	.031	.028	
3.0	.305	.259	.221	.262	.223	.192	.180	.155	.135	.104	.091	.079	.033	.029	.026	
4.0	.298	.246	.206	.256	.212	.179	.176	.148	.126	.102	.087	.075	.033	.028	.025	
5.0	.291	.236	.195	.250	.204	.170	.172	.142	.120	.100	.084	.071	.032	.027	.023	
6.0	.284	.228	.187	.244	.197	.163	.168	.138	.115	.098	.081	.069	.031	.027	.023	
7.0	.277	.221	.181	.239	.191	.158	.165	.134	.112	.096	.079	.067	.031	.026	.022	
8.0	.271	.215	.177	.234	.187	.154	.162	.131	.109	.094	.077	.065	.030	.025	.022	
9.0	.266	.211	.173	.229	.183	.151	.159	.128	.107	.092	.076	.064	.030	.025	.021	
10.0	.260	.206	.171	.224	.179	.149	.156	.126	.106	.091	.075	.063	.029	.024	.021	

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-14.4W/IP67

UGR Table

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965142		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	19.5	20.7	20.0	21.2	21.8	21.0	22.2	21.5	22.7	23.2
3H	19.6	20.7	20.1	21.2	21.8	22.0	23.1	22.5	23.6	24.2
4H	19.8	20.8	20.3	21.4	22.0	23.0	24.0	23.5	24.5	25.2
6H	20.2	21.1	20.7	21.7	22.3	24.5	25.4	25.0	26.0	26.6
8H	20.5	21.4	21.1	22.0	22.6	25.4	26.4	26.0	26.9	27.6
12H	20.9	21.8	21.5	22.4	23.1	26.6	27.5	27.2	28.1	28.8
4H 2H	19.6	20.6	20.1	21.2	21.8	20.9	21.9	21.5	22.5	23.1
3H	19.9	20.9	20.6	21.4	22.1	22.2	23.1	22.8	23.7	24.3
4H	20.4	21.2	21.0	21.8	22.5	23.5	24.3	24.1	24.9	25.6
6H	21.1	21.9	21.8	22.5	23.2	25.3	26.1	26.0	26.7	27.4
8H	21.6	22.3	22.3	23.0	23.7	26.5	27.2	27.2	27.8	28.6
12H	22.3	22.9	23.0	23.6	24.4	27.9	28.5	28.6	29.2	30.0
8H 4H	21.1	21.8	21.8	22.4	23.2	23.7	24.4	24.3	25.0	25.8
6H	22.3	22.8	23.0	23.5	24.3	25.9	26.4	26.6	27.1	27.9
8H	23.1	23.6	23.8	24.3	25.1	27.3	27.8	28.0	28.5	29.3
12H	24.0	24.4	24.8	25.2	26.0	29.0	29.4	29.7	30.1	31.0
12H 4H	21.4	22.0	22.1	22.7	23.5	23.7	24.3	24.4	25.0	25.8
6H	22.8	23.3	23.5	24.0	24.9	26.0	26.5	26.7	27.2	28.0
8H	23.8	24.2	24.5	24.9	25.8	27.5	27.9	28.2	28.7	29.5

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

CIE Pub.117 Corrected 1076 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.3)

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965142		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	43	37	53	43	36	51	42	36	29
0.80	64	53	46	62	52	45	60	50	44	37
1.00	72	61	54	70	60	53	67	60	52	44
1.25	79	68	61	77	67	60	72	64	58	50
1.50	84	74	67	81	72	65	76	69	63	53
2.00	90	81	74	87	79	73	81	75	70	59
2.50	94	86	79	90	83	77	84	78	74	62
3.00	97	89	84	93	87	81	87	82	77	64
4.00	101	94	89	97	91	87	90	85	82	68
5.00	103	98	93	99	94	90	91	88	84	70
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

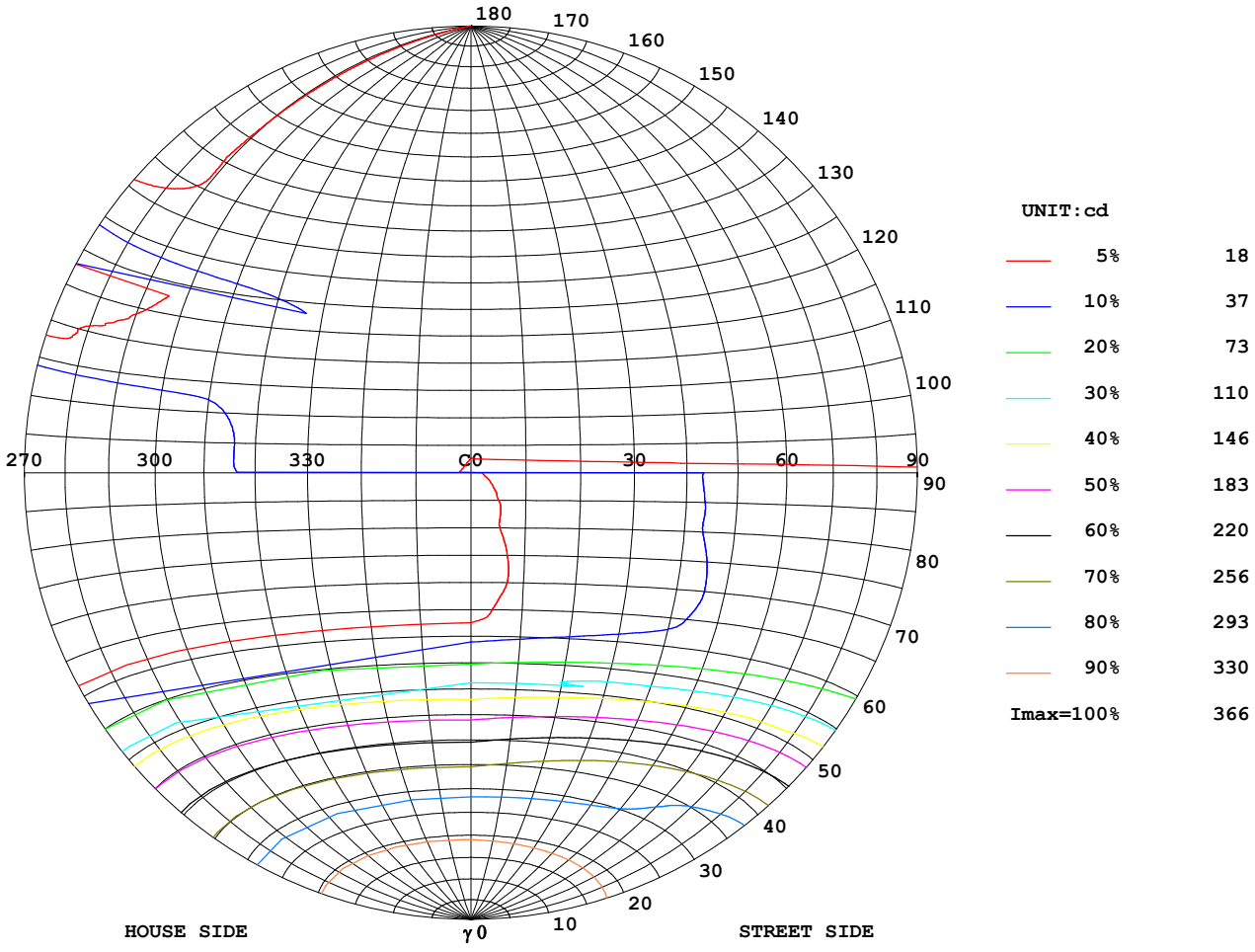
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP67

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:



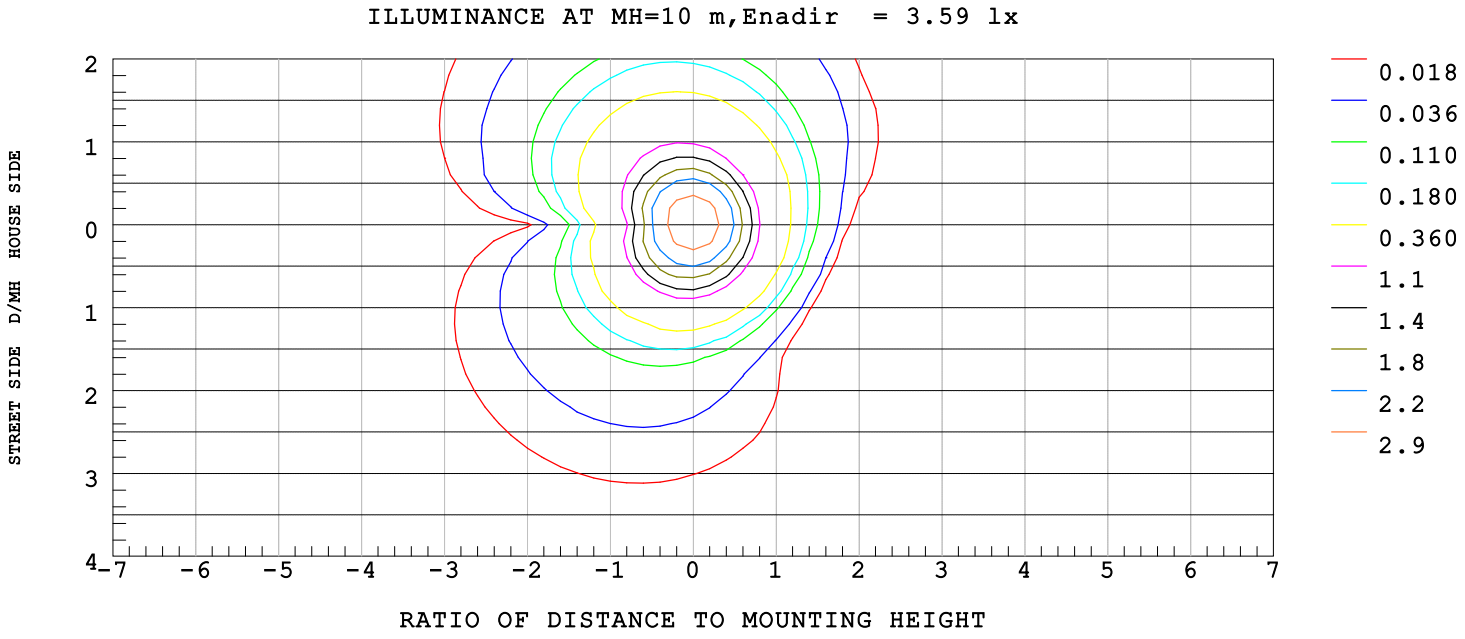
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

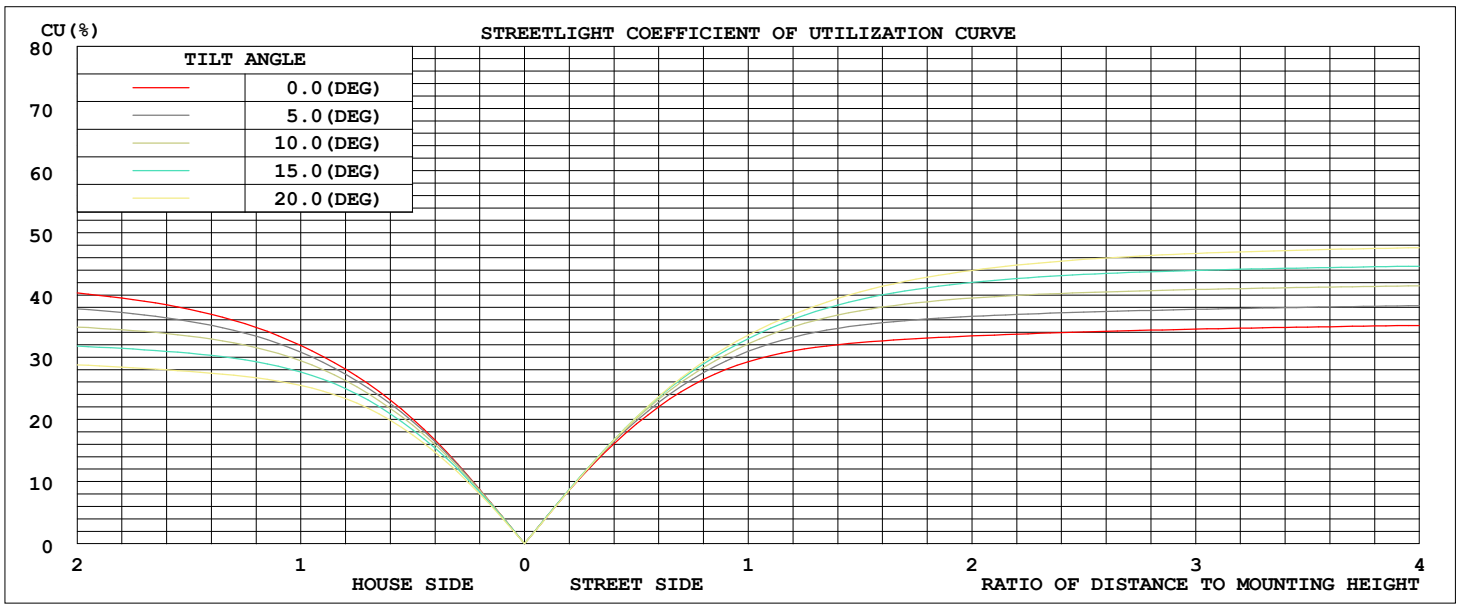
Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP67

ISOLUX DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:





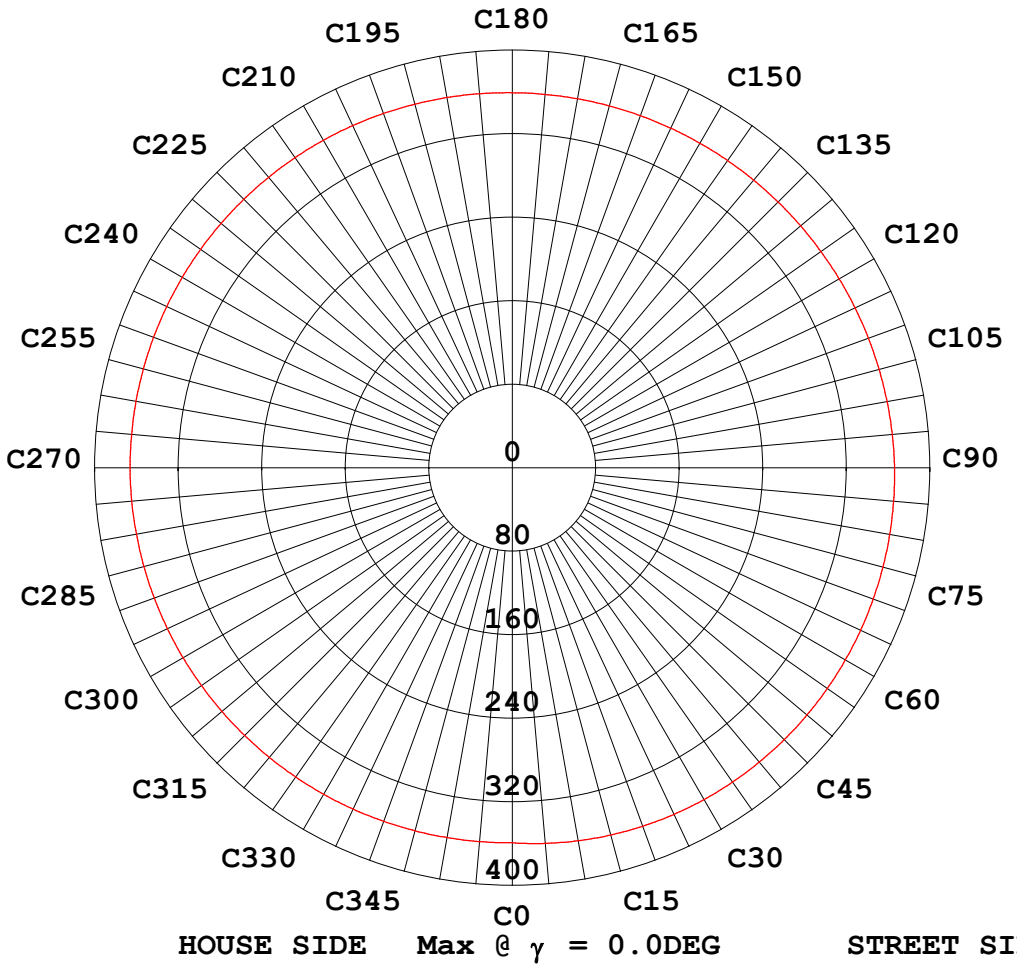
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP67

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965142		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-14.4W/IP67

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3965142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

UNIT: cd

γ (DEG) \ C(DEG)	0	90	180	270
0.0	359	366	359	366
5.0	357	363	358	365
10.0	351	355	353	358
15.0	340	340	343	356
20.0	327	322	328	349
25.0	308	305	309	337
30.0	284	300	287	325
35.0	253	305	258	309
40.0	216	275	224	297
45.0	174	225	183	299
50.0	127	170	124	300
55.0	71.4	109	73.7	266
60.0	29.8	71.4	28.8	217
65.0	16.3	58.4	11.9	161
70.0	15.0	57.4	12.5	98.5
75.0	15.0	57.9	13.4	72.1
80.0	15.7	58.7	14.5	63.5
85.0	15.8	58.5	16.0	62.2
90.0	17.3	57.4	18.0	59.9
95.0	19.1	54.7	20.4	59.6
100.0	21.5	50.8	22.6	60.7
105.0	23.9	26.3	24.6	60.4
110.0	26.4	17.5	26.8	58.5
115.0	28.6	14.9	28.8	52.6
120.0	30.5	44.5	30.2	44.5
125.0	31.6	33.3	31.0	33.3
130.0	31.6	19.8	31.6	19.8
135.0	31.6	15.1	31.6	15.1
140.0	31.6	14.7	31.6	14.7
145.0	31.6	14.6	31.6	14.6
150.0	31.6	14.4	31.6	14.4
155.0	31.6	14.3	31.6	14.3
160.0	31.5	14.2	31.5	14.2
165.0	31.5	14.1	31.5	14.1
170.0	31.5	14.0	31.5	14.0
175.0	31.5	13.9	31.5	13.9
180.0	31.5	13.9	31.5	13.9

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-14.4W/IP67