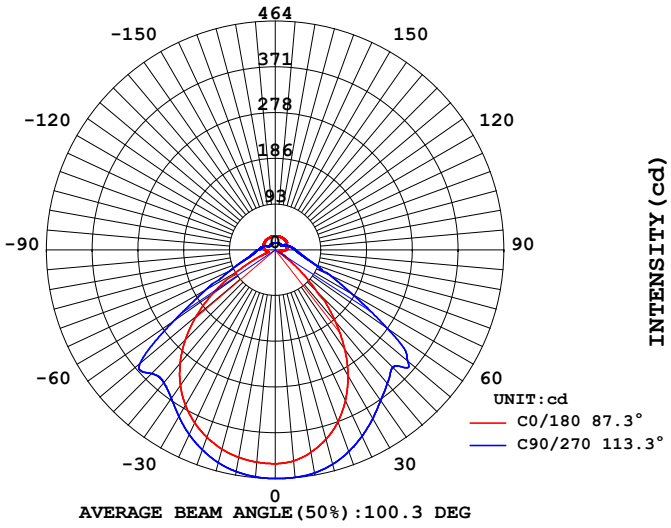
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

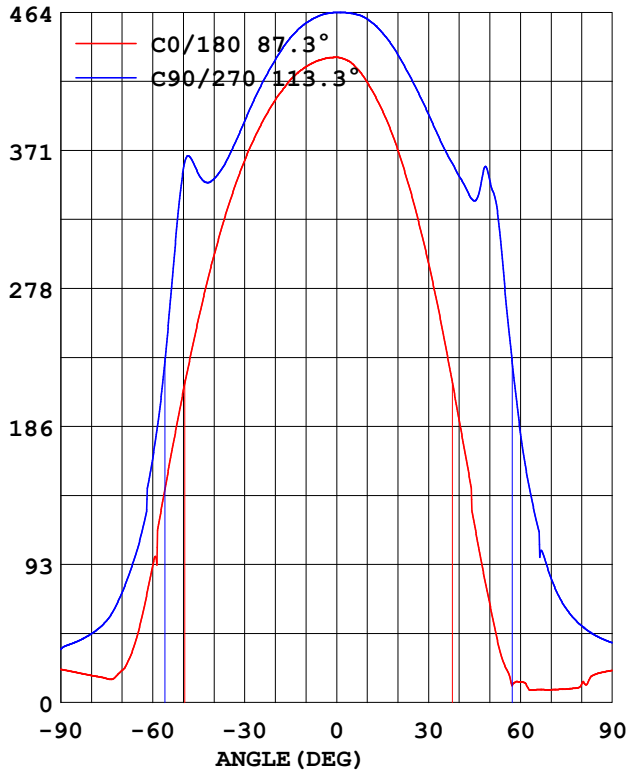
MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3955192		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	464.1	S/MH(C0/180)	1.24
MODEL	24V-480D-2700K	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.25
NOMINAL POWER(W)	16	TOTAL FLUX(lm)	1212.5	Voltage(V)	23.87
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	75.7	Current(A)	0.669
NOMINAL FLUX(lm)	1212.5	η up(%)	12.8	Power(W)	16.01
LAMPS QUANTITY	1	η down(%)	87.2	Power Factor(PF)	1.000
TEST VOLTAGE(V)	23.9	Effictive Flux(lm)	1015.8	EEI	0.206

LUMINOUS INTENSITY DISTRIBUTION



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-19.2W/IP54

Color Temperature Data List

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3955192		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

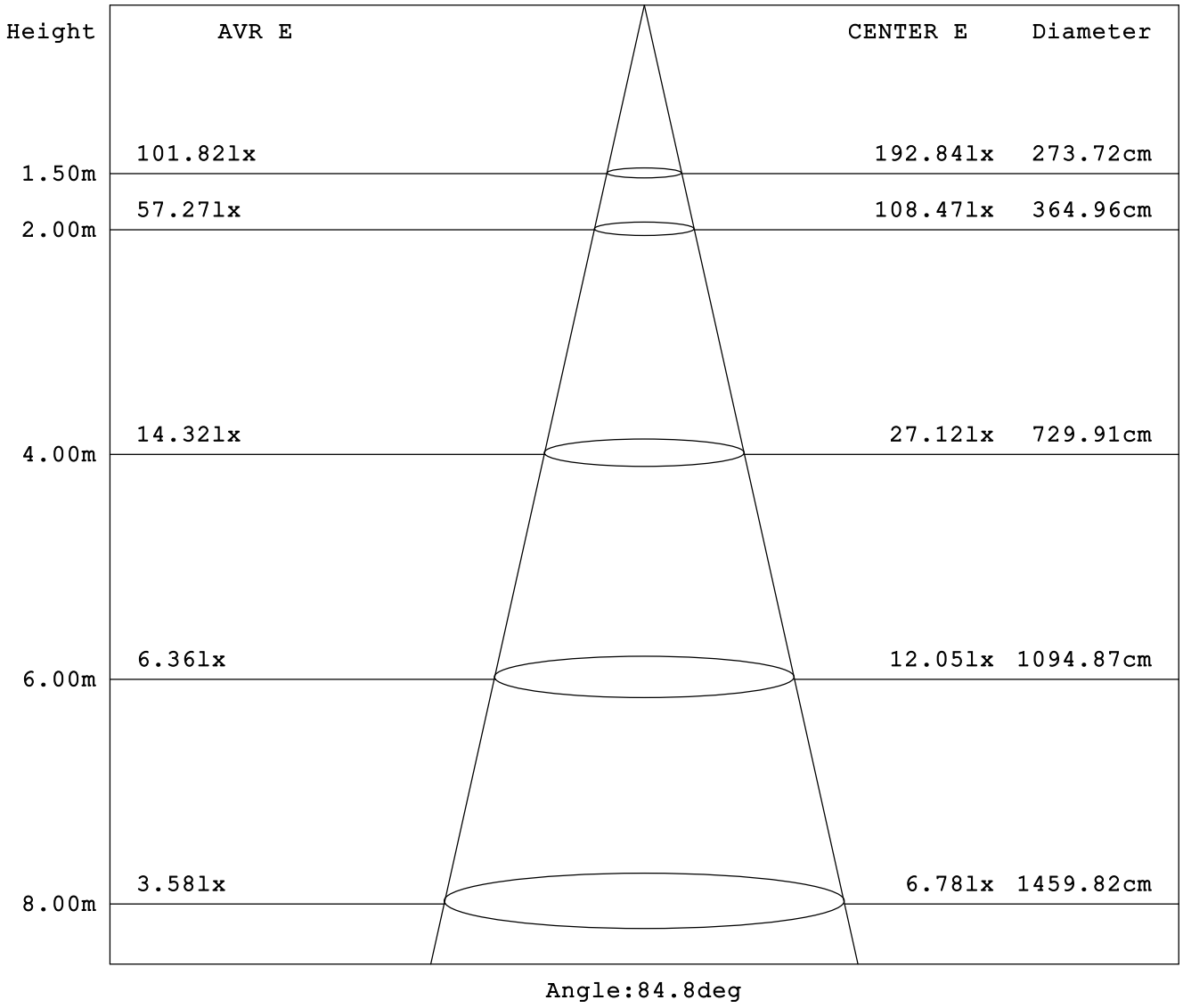
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-19.2W/IP54

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3955192		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:



Angle:84.8deg

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-19.2W/IP54

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3955192		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

γ	C0	C90	C180	C270					γ	zone	total
5.0	432.3	462.4	430.0	463.4					0- 5	10.28	10.28
10.0	427.6	457.1	417.8	459.8					5- 10	30.50	40.79
15.0	419.4	447.8	399.1	451.0					10- 15	49.58	90.38
20.0	406.4	433.4	374.2	437.2					15- 20	66.71	157.0
25.0	389.1	415.4	341.3	419.0					20- 25	81.06	238.1
30.0	367.5	393.7	301.1	398.4					25- 30	92.08	330.2
35.0	340.0	371.0	253.6	376.1					30- 35	99.25	429.5
40.0	306.3	353.9	199.3	357.0					35- 40	102.6	532.1
45.0	266.1	352.2	136.5	338.7					40- 45	103.1	635.3
50.0	219.6	366.6	76.56	359.5					45- 50	102.7	738.0
55.0	167.3	277.2	30.51	303.3					50- 55	95.86	833.9
60.0	96.61	180.2	14.20	202.3					55- 60	70.43	904.3
65.0	55.67	113.0	8.480	136.6					60- 65	47.29	951.6
70.0	24.99	80.99	8.561	92.23					65- 70	31.27	982.9
75.0	15.54	59.24	8.845	67.84					70- 75	22.38	1005
80.0	17.61	48.52	9.738	54.53					75- 80	18.18	1024
85.0	19.51	42.36	17.81	46.54					80- 85	16.83	1040
90.0	21.58	38.26	20.89	41.55					85- 90	16.64	1057
95.0	23.33	32.29	22.47	37.73					90- 95	15.96	1073
100.0	24.67	30.71	23.25	34.08					95-100	15.28	1088
105.0	25.72	28.16	23.81	30.63					100-105	14.60	1103
110.0	26.45	25.31	24.26	27.26					105-110	13.72	1117
115.0	26.90	18.78	24.79	23.65					110-115	12.54	1129
120.0	27.22	16.27	25.23	20.12					115-120	11.11	1140
125.0	27.51	14.68	25.19	15.25					120-125	9.919	1150
130.0	27.83	14.48	27.83	14.48					125-130	9.224	1159
135.0	28.11	15.29	28.11	15.29					130-135	8.889	1168
140.0	28.20	15.21	28.20	15.21					135-140	8.292	1177
145.0	28.20	15.13	28.20	15.13					140-145	7.544	1184
150.0	28.16	15.05	28.16	15.05					145-150	6.745	1191
155.0	28.16	14.97	28.16	14.97					150-155	5.896	1197
160.0	28.28	14.93	28.28	14.93					155-160	5.016	1202
165.0	28.72	14.85	28.72	14.85					160-165	4.131	1206
170.0	28.80	14.81	28.80	14.81					165-170	3.199	1209
175.0	28.89	14.76	28.89	14.76					170-175	2.224	1211
180.0	28.93	14.72	28.93	14.72					175-180	1.236	1213
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-19.2W/IP54

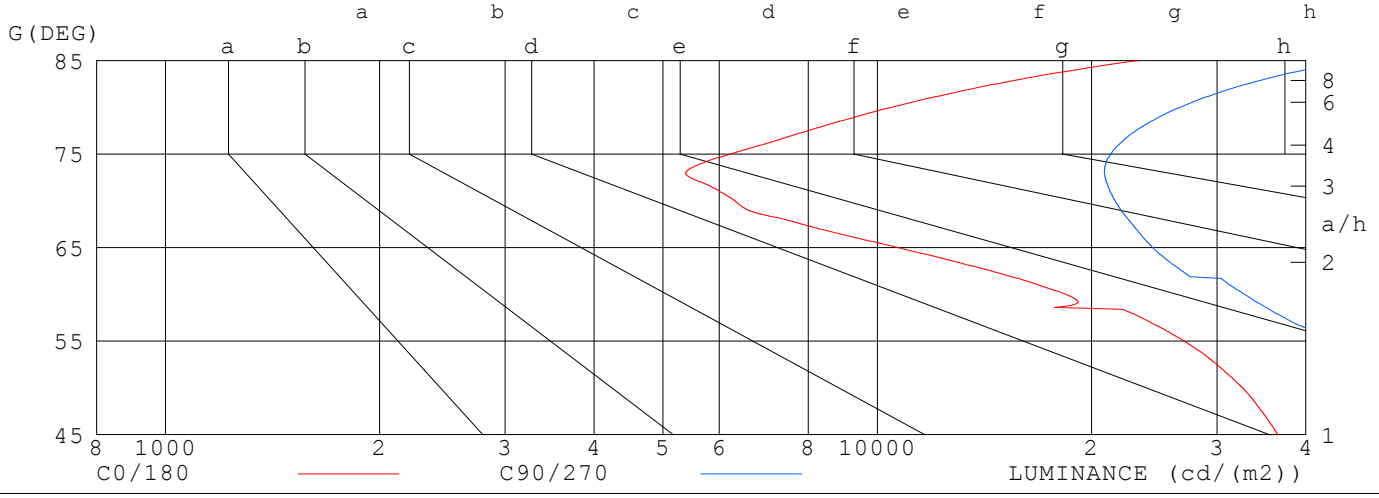
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3955192		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	23232	46836
80	10445	26685
75	6193	21369
70	6359	21723
65	10859	24551
60	18592	33062
55	27187	44179
50	32756	55911
45	36651	50177

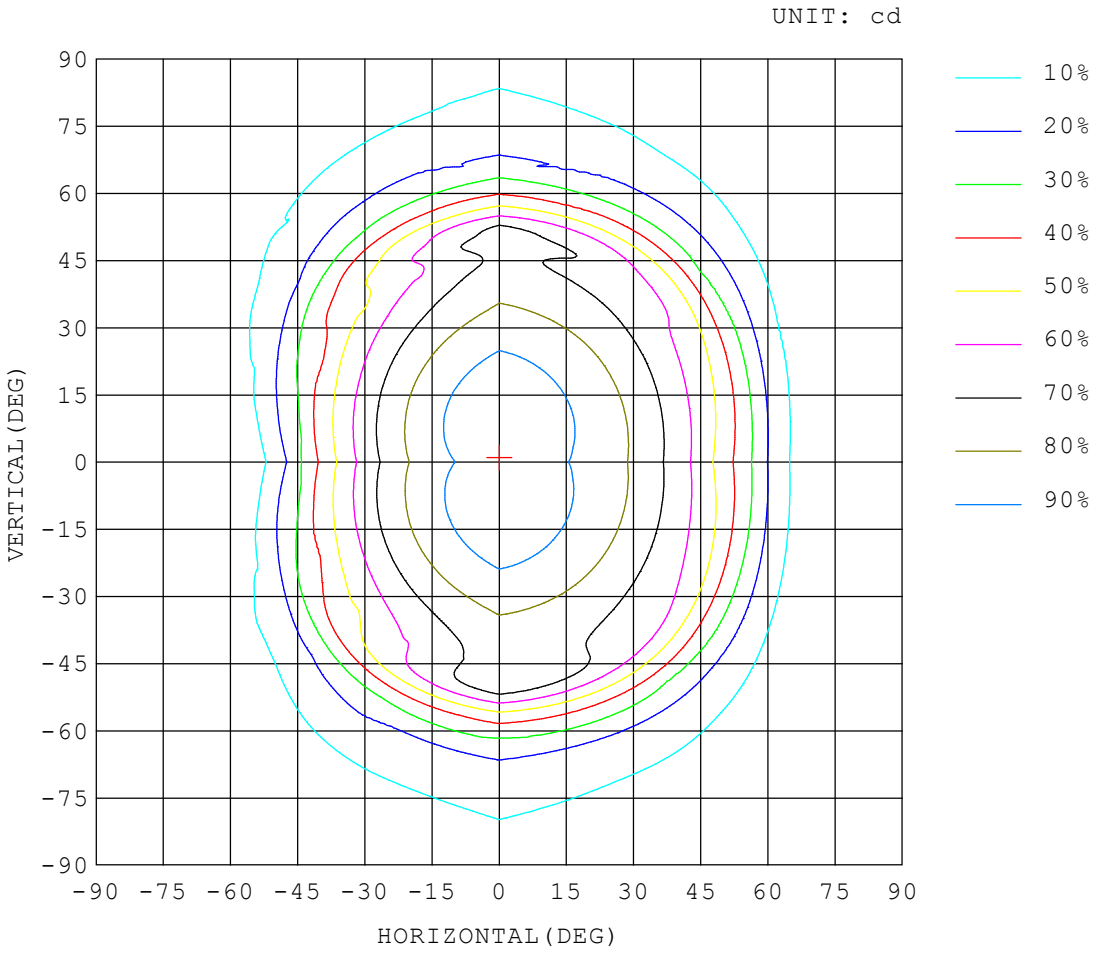
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-19.2W/IP54

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3955192		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:



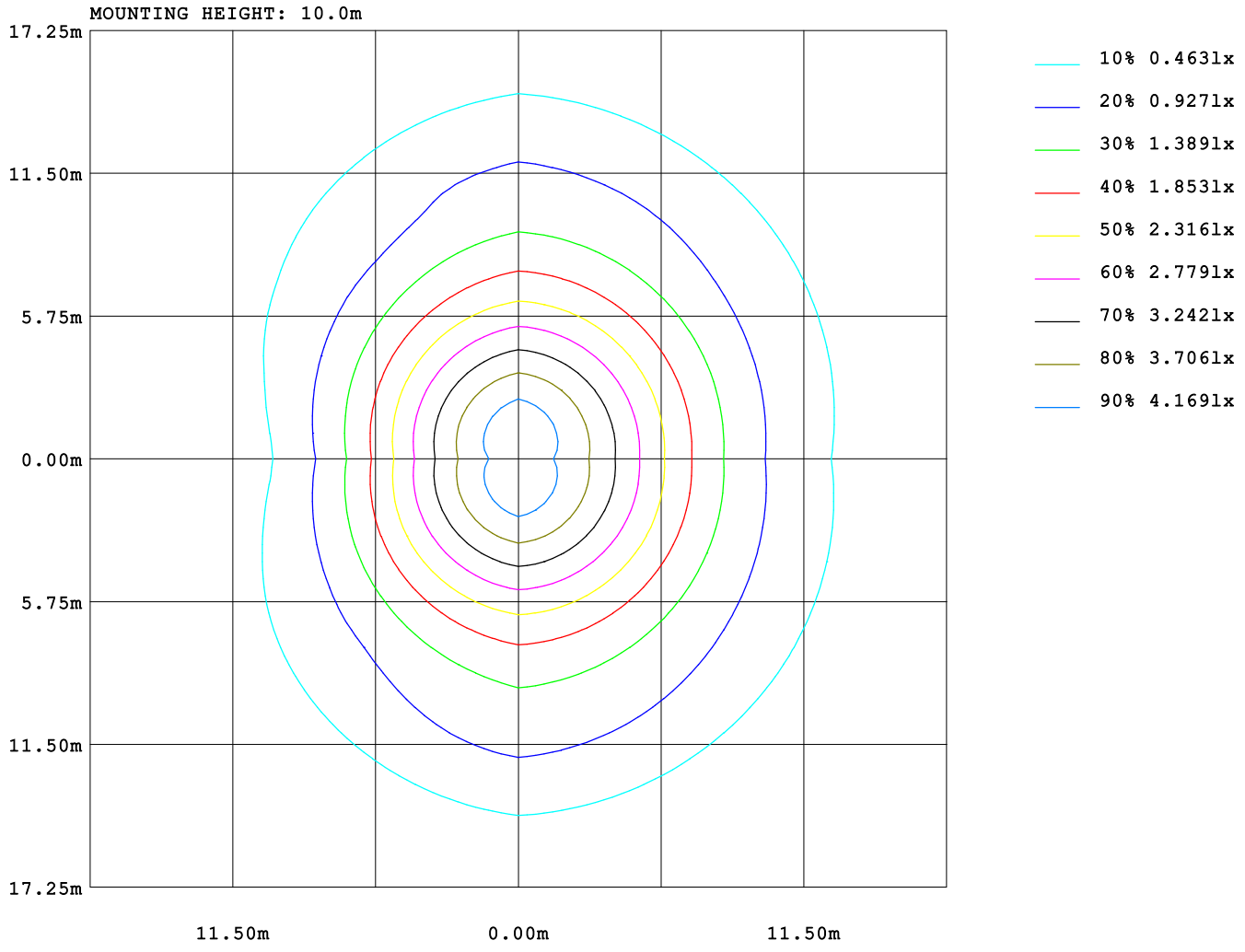
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-19.2W/IP54

ISOLUX DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3955192		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-19.2W/IP54

AREA LUMINOUS FLUX

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3955192		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	0.19	0.34	0.51	0.68	0.85	1.02	1.18	1.31	1.32	1.19	1.04	0.87	0.69	0.51	0.35	0.20	0.06	12.4	0.61
70	0.06	0.19	0.33	0.48	0.68	0.95	1.25	1.57	1.85	1.86	1.61	1.31	1.02	0.76	0.53	0.35	0.19	0.06	15.0	7.98
60	0.06	0.17	0.28	0.49	0.84	1.35	2.05	2.84	3.54	3.61	3.02	2.25	1.50	0.94	0.57	0.35	0.19	0.06	24.1	20.3
50	0.06	0.15	0.28	0.58	1.18	2.30	4.00	6.02	7.74	7.99	6.69	4.85	3.00	1.56	0.72	0.35	0.18	0.06	47.7	45.3
40	0.05	0.13	0.29	0.70	1.76	3.93	6.54	8.51	9.99	10.3	9.44	7.98	5.51	2.81	1.09	0.38	0.18	0.06	69.7	68.0
30	0.05	0.12	0.29	0.84	2.48	5.04	7.37	9.45	10.8	11.1	10.2	8.80	7.00	4.31	1.67	0.46	0.17	0.06	80.4	79.1
	0.05	0.11	0.27	0.91	2.93	5.65	8.45	10.7	12.2	12.4	11.4	9.75	7.60	5.18	2.26	0.56	0.16	0.05	90.7	89.6
	0.05	0.09	0.23	0.88	3.05	6.20	9.23	11.6	13.2	13.3	12.2	10.4	8.14	5.52	2.65	0.65	0.15	0.05	97.7	96.6
	0.04	0.08	0.17	0.68	2.93	6.28	9.42	11.8	13.3	13.5	12.3	10.6	8.36	5.60	2.74	0.67	0.14	0.05	99.0	98.0
	0.04	0.08	0.16	0.67	2.94	6.27	9.40	11.8	13.3	13.4	12.3	10.6	8.35	5.62	2.73	0.67	0.14	0.05	98.8	97.8
	0.05	0.09	0.21	0.83	3.08	6.18	9.18	11.5	13.1	13.2	12.1	10.4	8.12	5.55	2.61	0.63	0.15	0.05	97.2	96.1
-30	0.05	0.10	0.25	0.84	2.93	5.70	8.39	10.6	12.1	12.3	11.3	9.69	7.65	5.18	2.19	0.54	0.15	0.05	90.1	88.9
-40	0.05	0.11	0.26	0.75	2.33	5.14	7.46	9.38	10.7	11.0	10.2	8.89	7.10	4.16	1.58	0.43	0.16	0.06	79.9	78.5
-50	0.05	0.12	0.26	0.62	1.58	3.67	6.52	8.74	10.2	10.5	9.67	7.96	5.25	2.63	1.00	0.36	0.17	0.06	69.5	67.7
-60	0.06	0.14	0.25	0.52	1.03	2.02	3.58	5.50	7.17	7.42	6.17	4.43	2.71	1.41	0.66	0.33	0.18	0.06	43.6	41.0
-70	0.06	0.17	0.27	0.44	0.75	1.19	1.77	2.44	3.07	3.14	2.62	1.98	1.35	0.85	0.52	0.33	0.18	0.06	21.2	16.9
-80	0.06	0.18	0.31	0.45	0.63	0.85	1.11	1.39	1.63	1.64	1.43	1.17	0.92	0.70	0.50	0.33	0.19	0.06	13.5	4.82
-90	0.06	0.19	0.33	0.48	0.64	0.80	0.95	1.08	1.20	1.20	1.09	0.96	0.81	0.65	0.49	0.34	0.19	0.06	11.5	0.00
HORIZONTAL(DEG)																				
Φ t	0.96	2.42	4.77	11.6	32.4	64.4	97.7	126	147	150	135	113	85.3	54.1	25.0	8.05	3.07	1.02	1213	
Φ a	0.00	0.00	0.00	4.18	27.6	60.3	94.1	123	144	147	132	110	81.4	49.9	20.5	2.56	0.00	0.00		1016

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

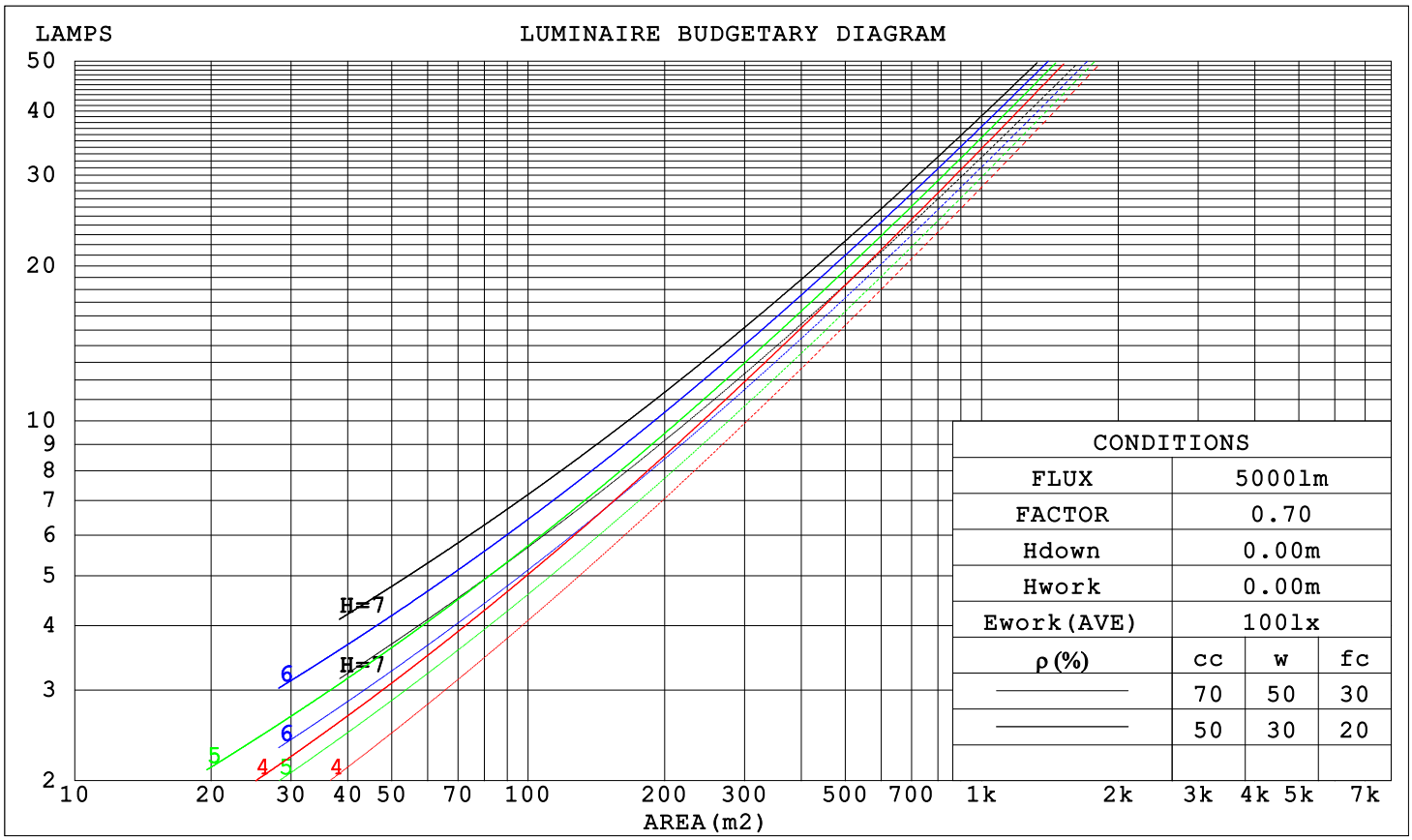
Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-19.2W/IP54

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3955192		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	1.16	1.16	1.16	1.12	1.12	1.12	1.04	1.04	1.04	.97	.97	.97	.90	.90	.90	.87
1.0	1.02	.98	.94	.98	.95	.92	.92	.89	.86	.86	.84	.81	.80	.78	.77	.74
2.0	.90	.84	.78	.87	.81	.76	.81	.77	.73	.76	.72	.69	.72	.69	.66	.63
3.0	.80	.72	.66	.77	.70	.65	.72	.67	.62	.68	.63	.59	.64	.60	.57	.54
4.0	.71	.63	.57	.69	.61	.56	.65	.59	.53	.61	.56	.51	.58	.53	.49	.47
5.0	.64	.55	.49	.62	.54	.48	.58	.52	.47	.55	.49	.45	.52	.47	.43	.41
6.0	.58	.49	.43	.56	.48	.42	.53	.46	.41	.50	.44	.40	.47	.42	.38	.36
7.0	.52	.44	.38	.51	.43	.38	.48	.41	.37	.46	.40	.35	.43	.38	.34	.32
8.0	.48	.40	.34	.47	.39	.34	.44	.37	.33	.42	.36	.32	.40	.35	.31	.29
9.0	.44	.36	.31	.43	.35	.30	.41	.34	.30	.39	.33	.29	.37	.32	.28	.26
10.0	.40	.33	.28	.39	.32	.28	.38	.31	.27	.36	.30	.26	.34	.29	.25	.24



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-19.2W/IP54

WEC AND CCEC

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3955192		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	.289	.164	.052	.278	.159	.050	.258	.148	.047	.239	.138	.044	.222	.128	.041	
2.0	.267	.147	.045	.258	.142	.044	.239	.133	.041	.223	.125	.039	.207	.117	.037	
3.0	.248	.132	.040	.239	.128	.039	.223	.121	.037	.208	.114	.035	.194	.107	.033	
4.0	.230	.120	.035	.222	.116	.034	.208	.110	.033	.194	.104	.031	.181	.098	.030	
5.0	.214	.109	.032	.207	.106	.031	.194	.101	.030	.181	.096	.028	.170	.091	.027	
6.0	.200	.100	.029	.193	.098	.028	.181	.093	.027	.170	.088	.026	.159	.084	.025	
7.0	.187	.092	.026	.181	.090	.026	.170	.086	.025	.160	.082	.024	.150	.078	.023	
8.0	.175	.086	.024	.170	.084	.024	.160	.080	.023	.150	.076	.022	.141	.073	.021	
9.0	.165	.080	.022	.160	.078	.022	.151	.075	.021	.142	.071	.020	.134	.068	.020	
10.0	.156	.075	.021	.151	.073	.020	.143	.070	.020	.134	.067	.019	.127	.064	.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	.288	.288	.288	.246	.246	.246	.168	.168	.168	.097	.097	.097	.031	.031	.031	
1.0	.277	.255	.235	.237	.219	.202	.162	.150	.140	.093	.087	.081	.030	.028	.026	
2.0	.268	.231	.200	.230	.199	.173	.157	.138	.121	.091	.080	.071	.029	.026	.023	
3.0	.260	.214	.177	.223	.185	.154	.153	.128	.108	.088	.075	.064	.028	.024	.021	
4.0	.252	.201	.161	.217	.173	.140	.149	.121	.099	.086	.071	.058	.028	.023	.019	
5.0	.245	.190	.150	.211	.165	.131	.145	.115	.092	.084	.068	.055	.027	.022	.018	
6.0	.238	.182	.142	.205	.158	.124	.141	.110	.087	.082	.065	.052	.026	.021	.017	
7.0	.232	.176	.136	.200	.152	.118	.138	.107	.084	.080	.063	.050	.026	.021	.017	
8.0	.226	.170	.131	.195	.147	.114	.135	.103	.081	.078	.061	.048	.025	.020	.016	
9.0	.220	.165	.128	.190	.143	.111	.132	.101	.079	.077	.059	.047	.025	.020	.016	
10.0	.215	.161	.125	.185	.140	.109	.129	.098	.077	.075	.058	.046	.024	.019	.015	

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-19.2W/IP54

UGR Table

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3955192		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	23.4	24.7	23.9	25.1	25.6	25.2	26.5	25.6	26.9	27.3
3H	23.5	24.6	23.9	25.1	25.6	25.7	26.9	26.2	27.3	27.8
4H	23.5	24.5	23.9	25.0	25.5	26.0	27.1	26.5	27.5	28.0
6H	23.5	24.6	24.0	25.0	25.6	26.4	27.4	26.9	27.9	28.4
8H	23.6	24.6	24.2	25.1	25.7	26.6	27.6	27.2	28.1	28.7
12H	23.9	24.8	24.4	25.3	25.9	27.1	28.0	27.6	28.5	29.1
4H 2H	23.7	24.8	24.2	25.2	25.7	25.2	26.3	25.7	26.8	27.3
3H	23.8	24.8	24.4	25.3	25.8	25.8	26.8	26.4	27.3	27.8
4H	23.9	24.7	24.4	25.3	25.9	26.2	27.1	26.8	27.6	28.2
6H	24.1	24.9	24.7	25.4	26.0	26.8	27.5	27.4	28.1	28.7
8H	24.3	25.0	24.9	25.6	26.2	27.2	27.9	27.8	28.5	29.1
12H	24.7	25.3	25.3	25.9	26.6	27.8	28.5	28.4	29.0	29.7
8H 4H	24.0	24.7	24.6	25.3	25.9	26.2	26.9	26.8	27.5	28.1
6H	24.5	25.1	25.1	25.7	26.3	27.0	27.5	27.6	28.2	28.8
8H	24.9	25.4	25.5	26.0	26.7	27.6	28.1	28.2	28.7	29.4
12H	25.5	25.9	26.2	26.6	27.3	28.4	28.9	29.1	29.5	30.2
12H 4H	24.1	24.7	24.7	25.3	26.0	26.2	26.8	26.8	27.4	28.1
6H	24.6	25.2	25.3	25.8	26.5	27.0	27.5	27.7	28.1	28.9
8H	25.2	25.6	25.8	26.2	27.0	27.7	28.1	28.4	28.8	29.5

Variations with the observer position at spacings:		
S = 1.0H	+ 0.4 / - 0.6	+ 0.2 / - 0.2
1.5H	+ 0.7 / - 0.9	+ 0.6 / - 0.8
2.0H	+ 0.8 / - 1.4	+ 1.3 / - 1.2

CIE Pub.117 Corrected 1213 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.7)

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-19.2W/IP54

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3955192		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	56	45	38	55	44	38	53	44	38	31
0.80	66	55	48	65	54	48	62	53	47	40
1.00	75	64	57	73	63	56	70	63	55	48
1.25	82	71	65	80	70	64	76	68	62	54
1.50	86	77	70	84	75	69	80	73	67	58
2.00	93	84	78	90	83	77	85	79	74	64
2.50	96	89	83	93	87	81	88	82	78	67
3.00	99	93	87	96	90	85	91	86	82	70
4.00	103	97	92	100	95	90	94	89	86	74
5.00	105	100	96	102	97	93	95	92	89	76
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

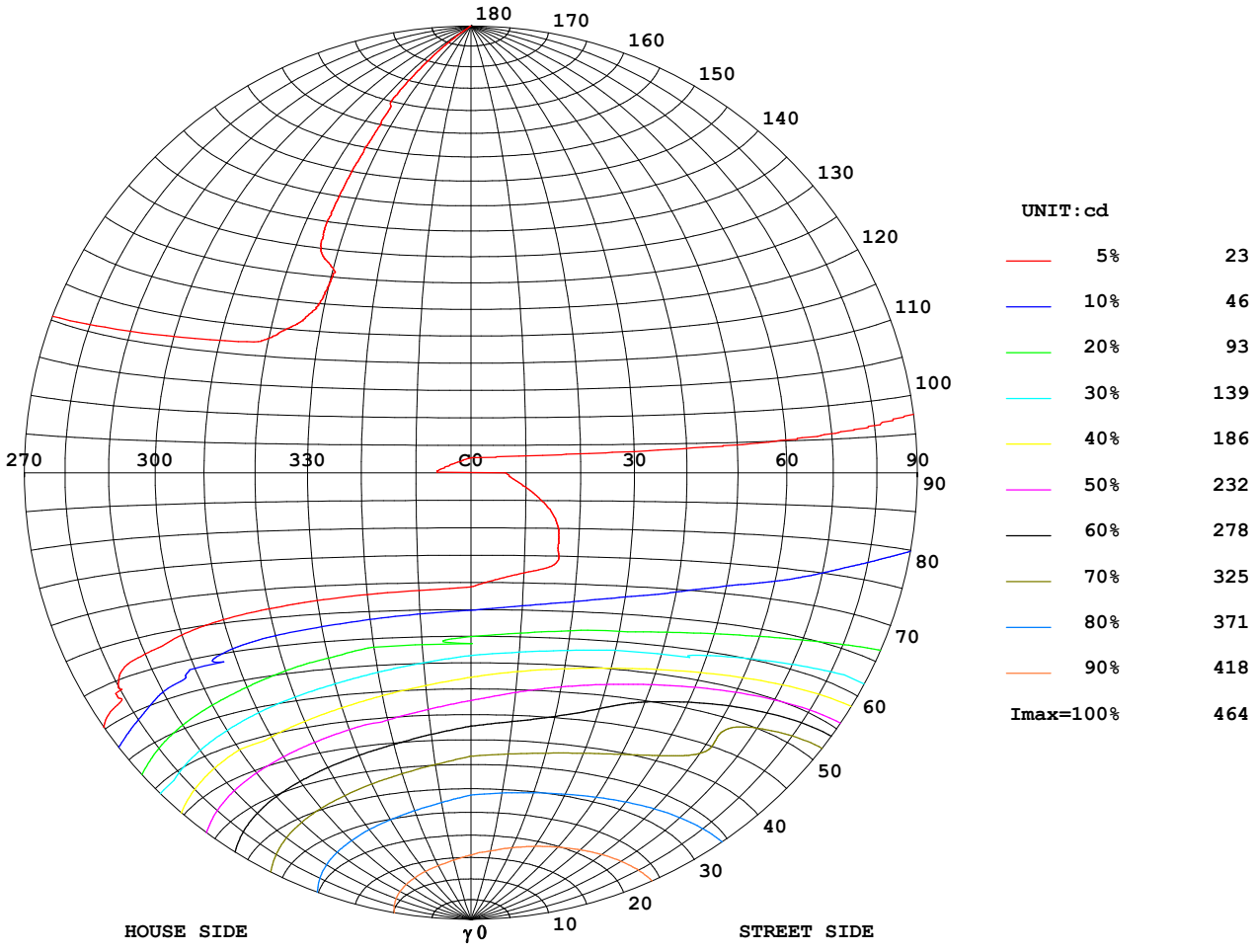
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-19.2W/IP54

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3955192		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:



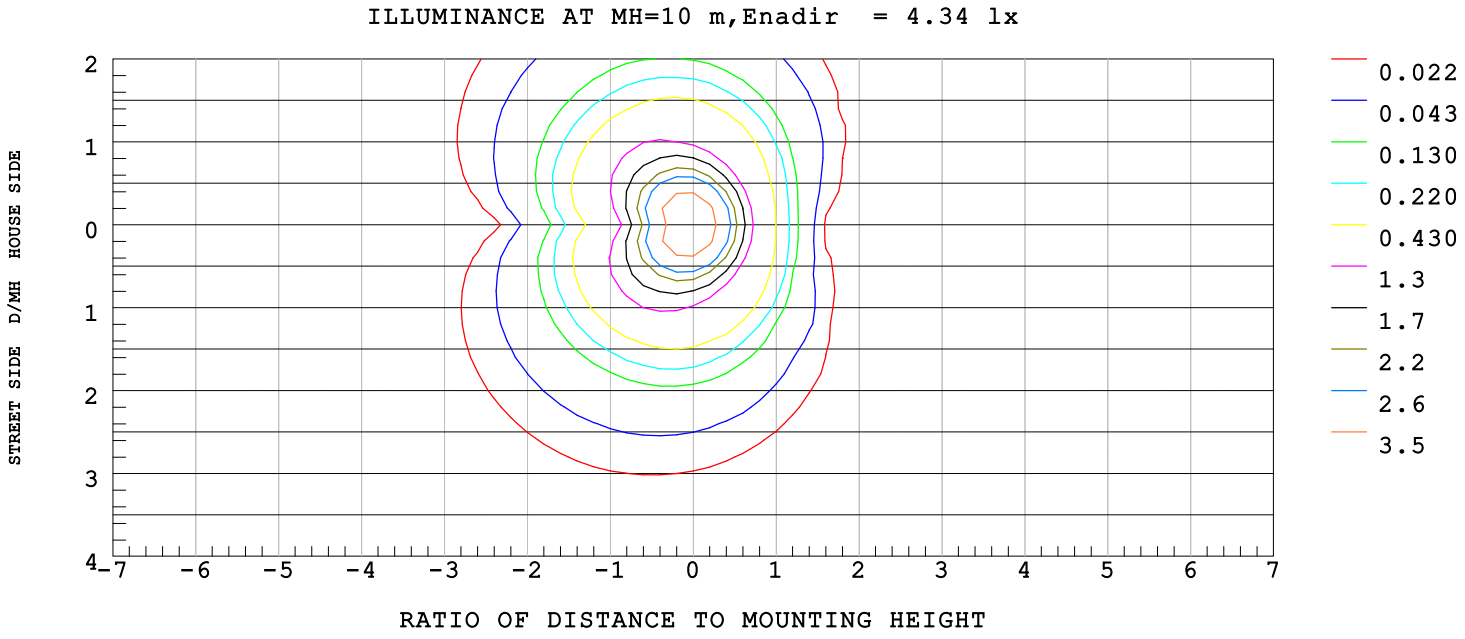
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

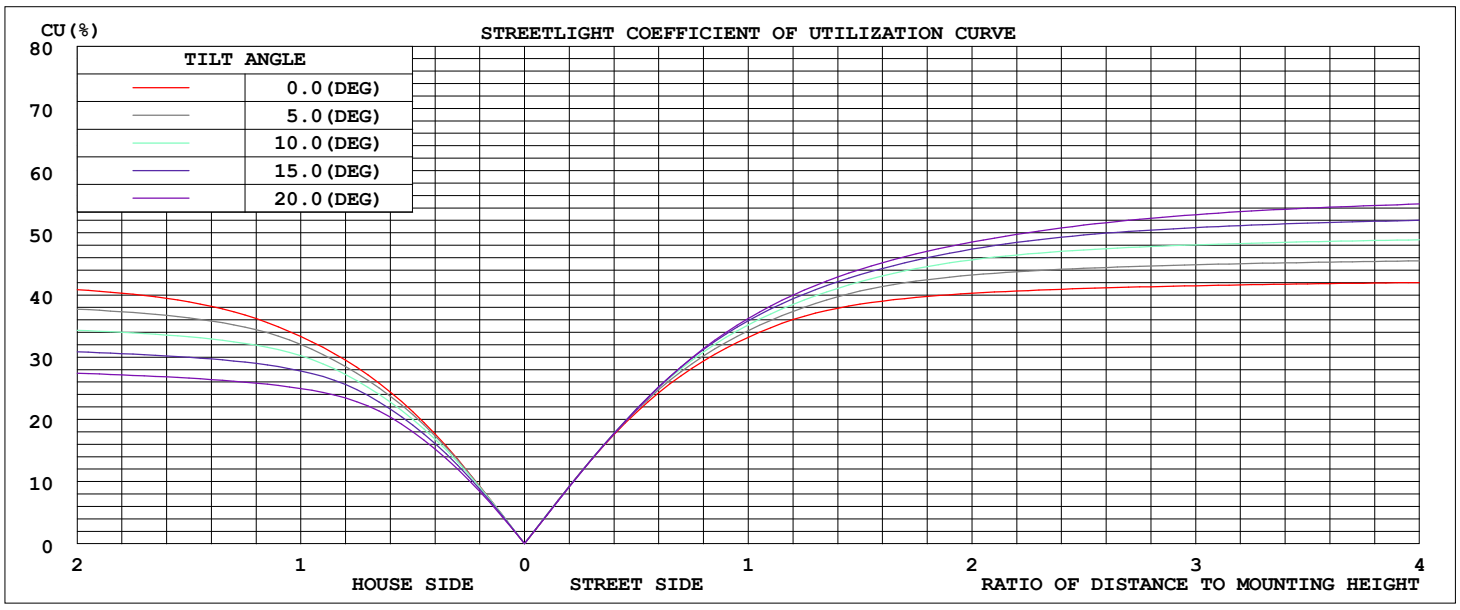
Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-19.2W/IP54

ISOLUX DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3955192		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:





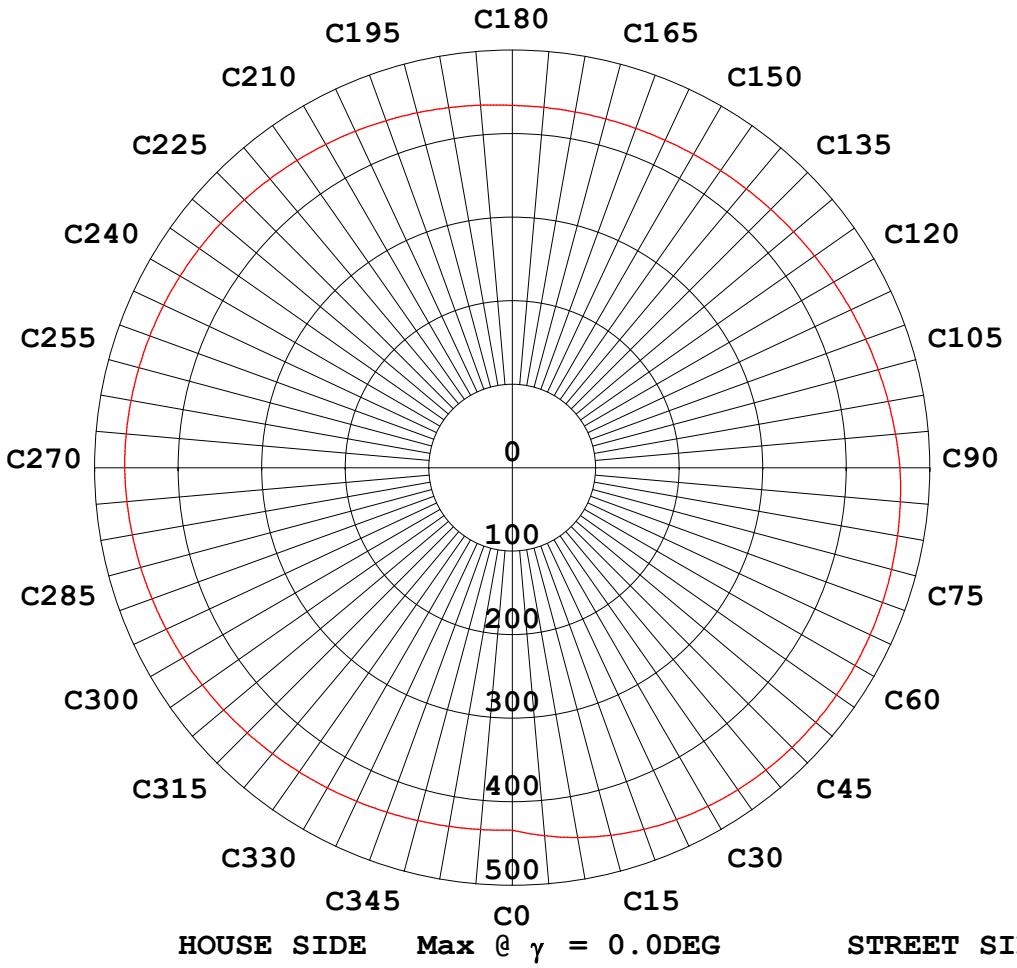
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-19.2W/IP54

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3955192		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-19.2W/IP54

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3955192		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

UNIT: cd

γ (DEG) \ C(DEG)	0	90	180	270
0.0	434	464	434	464
5.0	432	462	430	463
10.0	428	457	418	460
15.0	419	447	398	451
20.0	405	432	372	436
25.0	387	414	338	418
30.0	365	391	297	396
35.0	336	368	247	374
40.0	301	352	191	354
45.0	259	355	121	337
50.0	211	359	67.4	352
55.0	156	253	24.8	279
60.0	92.9	165	13.6	183
65.0	45.8	104	8.56	125
70.0	21.7	74.2	8.60	84.3
75.0	16.0	55.3	9.00	63.2
80.0	18.1	46.3	11.9	51.6
85.0	20.2	40.8	19.3	44.6
90.0	22.2	35.8	21.5	40.2
95.0	23.8	31.6	22.8	36.3
100.0	25.1	29.6	23.4	32.8
105.0	26.0	27.1	24.0	29.2
110.0	26.6	23.6	24.4	25.7
115.0	27.0	17.6	25.0	21.9
120.0	27.3	15.3	25.2	16.7
125.0	27.6	14.2	27.6	13.8
130.0	28.1	15.1	28.1	15.1
135.0	28.2	15.2	28.2	15.2
140.0	28.2	15.1	28.2	15.1
145.0	28.2	15.0	28.2	15.0
150.0	28.2	15.0	28.2	15.0
155.0	28.1	14.9	28.1	14.9
160.0	28.7	14.8	28.7	14.8
165.0	28.8	14.8	28.8	14.8
170.0	28.8	14.8	28.8	14.8
175.0	28.9	14.7	28.9	14.7
180.0	28.9	14.7	28.9	14.7

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-19.2W/IP54