

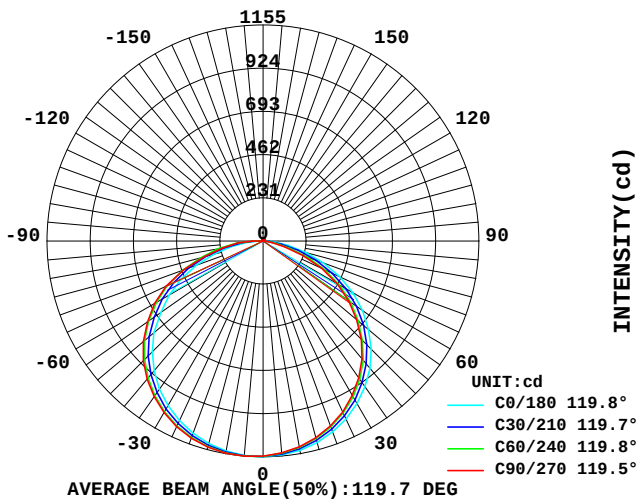
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number: HLRP10234

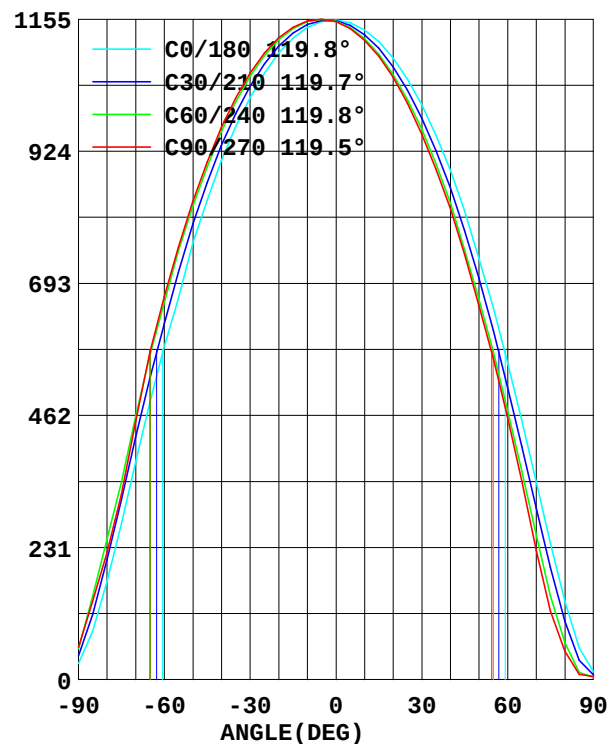
MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825365	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01

DATA OF LAMP		Imax(cd)	1155	S/MH(C0/180)	1.31
MODEL	HCP-3825365	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.37
NOMINAL POWER(W)	36	TOTAL FLUX(lm)	3615.5	Voltage(V)	24.00
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	95.9	Current(A)	1.572
NOMINAL FLUX(lm)	3615.6	η up(%)	1.8	Power(W)	37.70
LAMPS QUANTITY	1	η down(%)	98.2	Power Factor(PF)	1.000
TEST VOLTAGE(V)	24.0	Effective Flux(lm)	3493.2	EEI	0.147

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



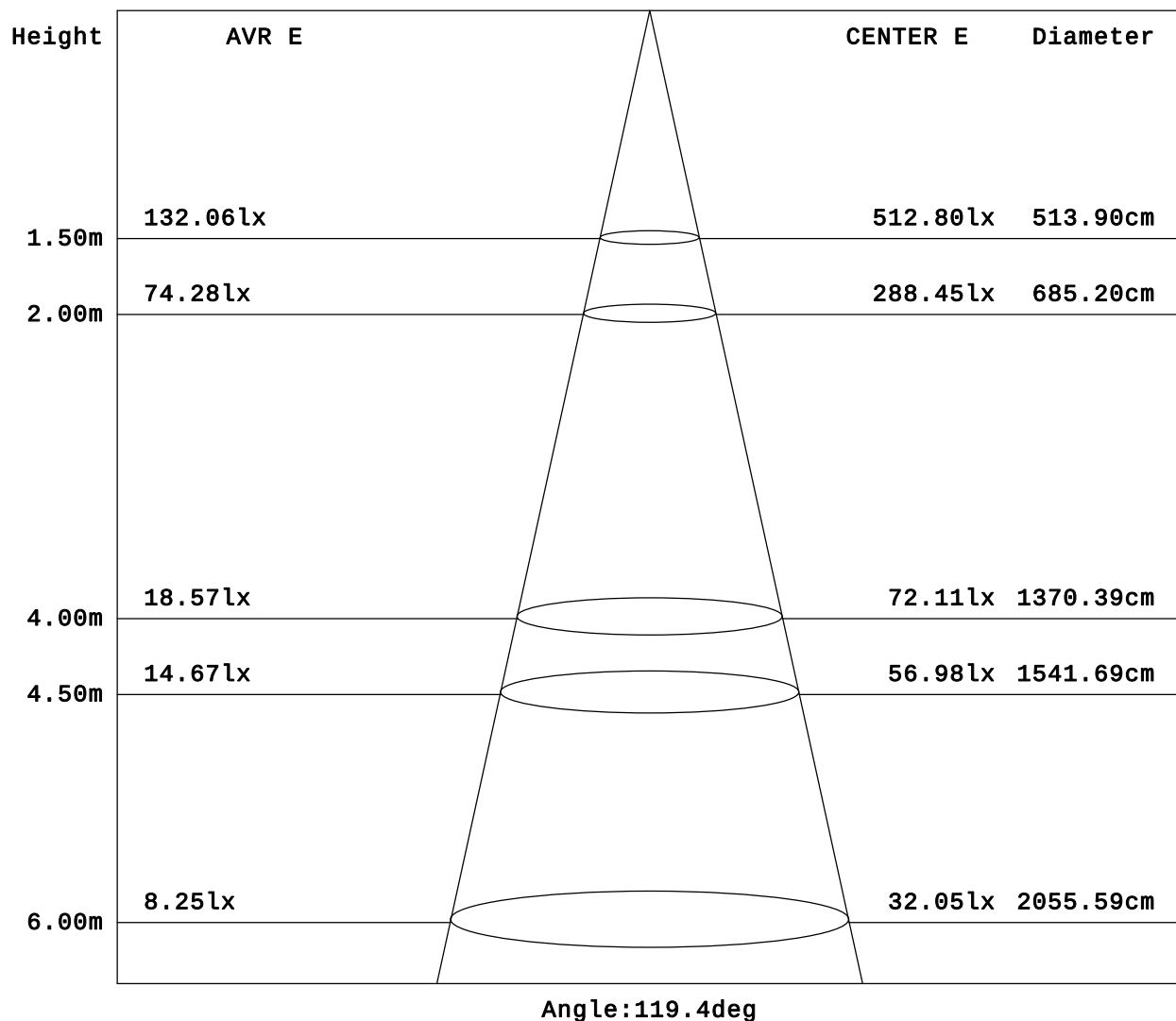
Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:RD
Test Date:10-23-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: COB IES

AVERAGE AND CENTER E Figure

Report number: HLRP10234

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825365	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01



Test System: HOP00 HPG1800
Temperature: 25.3DEG
Operators: RD
Test Date: 10-23-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 8.000 m
Remarks: COB IES

ZONAL FLUX DIAGRAM

Report number: HLRP10234

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825365	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
10.0	1141	1148	1152	1150	1137	1125	1119	1121	0- 10	109.1	109.1
20.0	1095	1113	1122	1119	1087	1065	1053	1057	10- 20	315.4	424.6
30.0	1018	1046	1061	1054	1006	972.7	954.6	961.1	20- 30	485.6	910.3
40.0	907.3	946.4	965.8	957.8	890.8	846.7	823.2	832.4	30- 40	598.4	1509
50.0	763.5	812.3	836.0	827.3	736.1	683.4	653.6	660.7	40- 50	636.5	2145
60.0	582.4	640.9	670.2	657.8	555.3	492.0	459.4	472.7	50- 60	589.3	2735
70.0	379.6	440.9	449.8	462.4	345.9	276.1	226.1	260.1	60- 70	459.0	3194
80.0	171.7	227.4	221.7	244.6	137.9	83.90	49.91	70.43	70- 80	264.9	3459
90.0	28.09	47.84	56.32	59.48	12.92	6.240	5.376	5.152	80- 90	90.80	3549
100.0	6.592	5.536	4.544	5.472	5.184	6.080	6.528	6.240	90-100	14.01	3563
110.0	7.808	6.816	6.144	6.752	6.848	7.552	8.000	7.776	100-110	6.860	3570
120.0	9.344	8.384	7.872	8.256	8.512	9.184	9.600	9.408	110-120	7.930	3578
130.0	10.94	10.04	9.600	9.888	10.30	10.81	11.13	11.07	120-130	8.634	3587
140.0	12.41	11.68	11.32	11.52	11.90	12.28	12.60	12.54	130-140	8.710	3596
150.0	13.63	13.12	12.80	12.92	13.18	13.50	13.82	13.76	140-150	7.964	3604
160.0	14.59	14.20	14.01	14.01	14.27	14.49	14.84	14.65	150-160	6.405	3610
170.0	15.36	14.97	15.04	14.87	15.16	15.16	15.48	15.23	160-170	4.179	3614
180.0	15.61	15.39	15.61	15.36	15.61	15.32	15.61	15.32	170-180	1.458	3616
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:RD
Test Date:10-23-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: COB IES

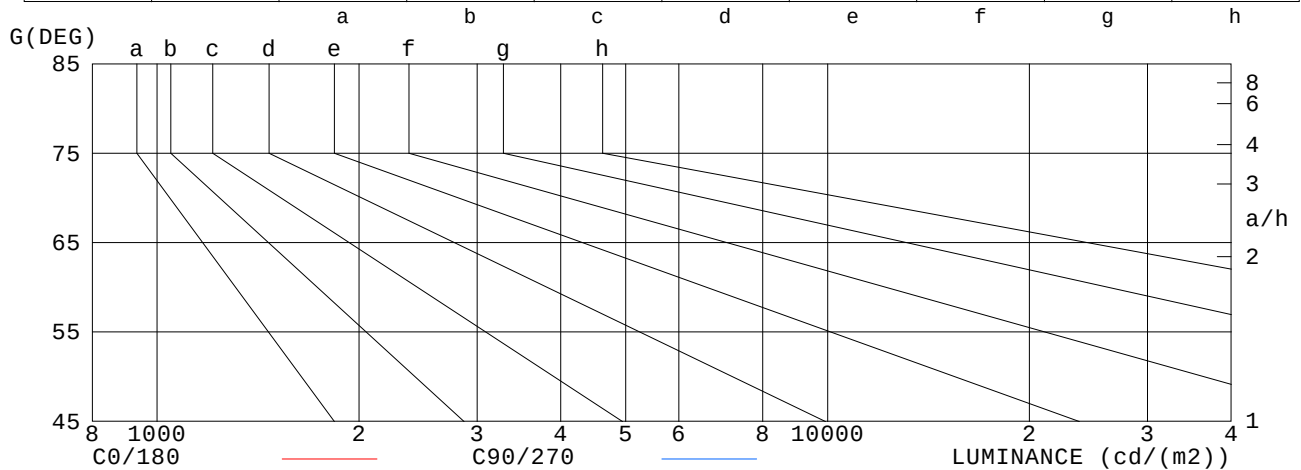
LUMINANCE LIMITATION CURVES

Report number: HLRP10234

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825365	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01

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



LUMINANCE cd/m2		
G(DEG)	C0/180	C90/270
85	120979	195971
80	123606	159633
75	131551	156372
70	138752	164411
65	143449	169344
60	145616	167552
55	145334	164805
50	148491	162592
45	148277	160055

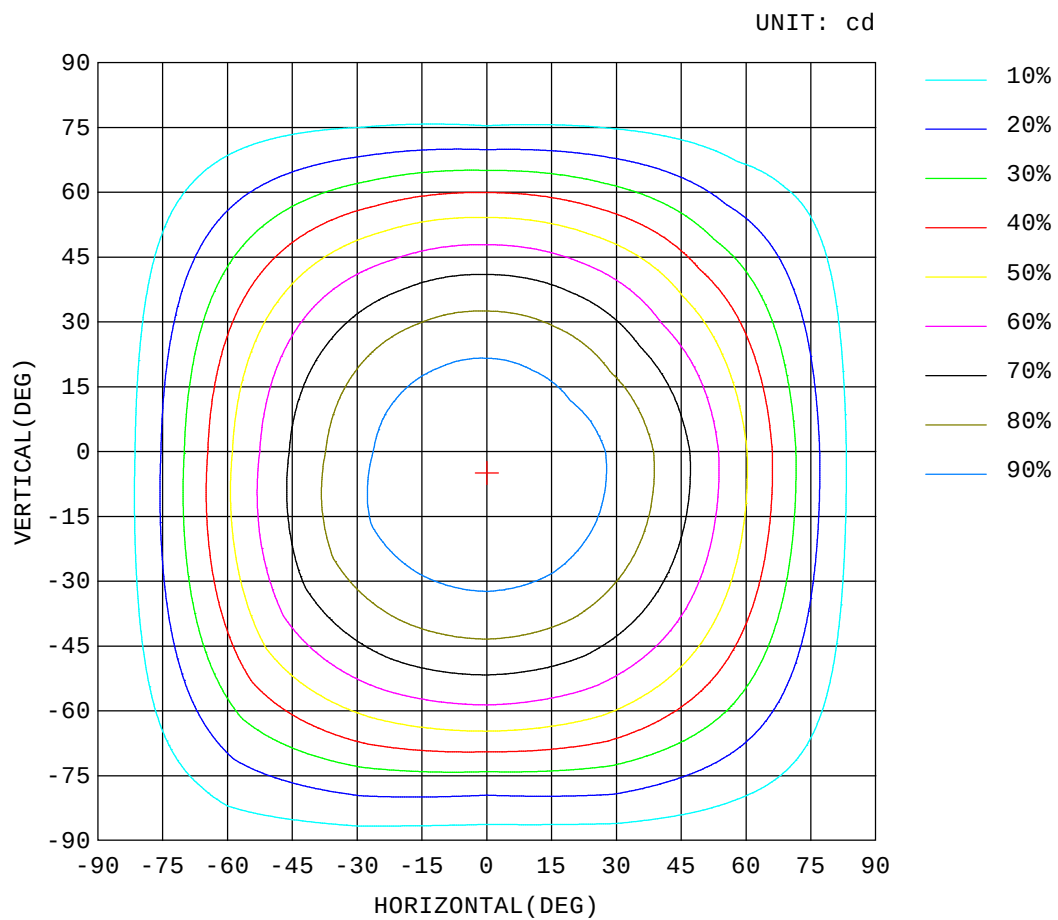
Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:RD
Test Date:10-23-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: COB IES

ISOCANDELA DIAGRAM

Report number: HLRP10234

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825365	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01



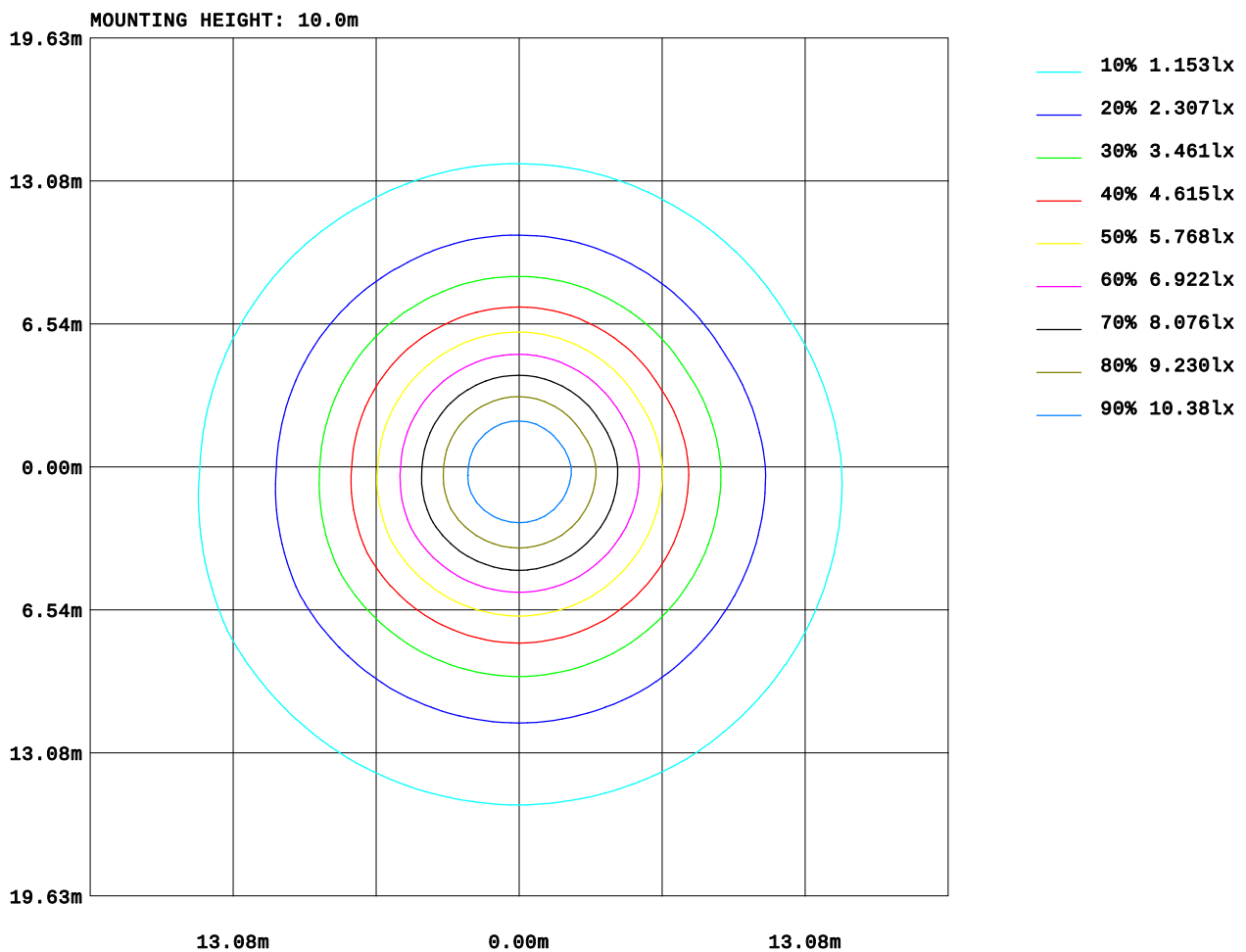
Test System: HOP00 HPG1800
Temperature: 25.3DEG
Operators: RD
Test Date: 10-23-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 8.000 m
Remarks: COB IES

ISOLUX DIAGRAM

Report number: HLRP10234

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825365	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01



Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:RD
Test Date:10-23-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: COB IES

AREA LUMINOUS FLUX

Report number: HLRP10234

MANUFACTURER: HAVIT COMMERCIAL																			
Address:																			
NAME: HCP-3825365										TYPE: 2835 CRI95					WEIGHT:				
SPECIFICATION: 5000K										DIMENSION: 240mm x 480mm					SERIAL No.: 01				

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT: lm		Φ t	Φ a
	0.04	0.15	0.27	0.37	0.45	0.49	0.53	0.58	0.58	0.58	0.56	0.50	0.43	0.37	0.28	0.26	0.21	0.08	6.73	0.00
90	0.07	0.30	0.74	1.38	2.10	2.78	3.38	3.85	3.99	3.97	3.79	3.28	2.58	1.82	1.11	0.68	0.37	0.11	36.3	20.8
80	0.09	0.54	1.54	3.06	4.87	6.75	8.45	9.80	10.4	10.4	9.66	8.25	6.46	4.49	2.67	1.43	0.62	0.13	89.7	86.7
70	0.11	0.83	2.48	4.97	7.97	11.0	13.7	15.8	16.8	16.8	15.6	13.4	10.6	7.50	4.56	2.38	0.91	0.16	146	145
60	0.14	1.13	3.42	6.82	10.8	14.8	18.3	20.9	22.3	22.3	20.7	17.9	14.3	10.3	6.47	3.38	1.23	0.20	196	195
50	0.17	1.41	4.27	8.45	13.2	18.0	22.2	25.3	26.9	26.8	25.0	21.8	17.5	12.7	8.22	4.31	1.54	0.23	239	238
40	0.20	1.66	4.98	9.75	15.2	20.6	25.2	28.6	30.3	30.3	28.3	24.8	20.1	14.8	9.67	5.11	1.82	0.26	272	272
30	0.21	1.84	5.49	10.6	16.5	22.3	27.3	30.9	32.8	32.7	30.7	27.0	22.1	16.5	10.7	5.73	2.04	0.29	296	296
20	0.23	1.95	5.80	11.2	17.4	23.4	28.5	32.3	34.3	34.2	32.2	28.6	23.6	17.6	11.5	6.15	2.19	0.30	312	312
10	0.23	2.00	5.95	11.4	17.7	23.9	29.1	32.9	34.8	34.8	32.9	29.2	24.0	18.0	11.7	6.29	2.24	0.31	318	318
0	0.23	2.00	5.94	11.4	17.7	23.8	29.0	32.6	34.4	34.3	32.4	28.7	23.6	17.7	11.5	6.16	2.19	0.30	315	314
-10	0.22	1.91	5.71	11.0	17.1	23.0	27.8	31.2	33.0	32.9	31.1	27.5	22.6	16.8	10.9	5.82	2.07	0.29	301	301
-20	0.21	1.75	5.26	10.2	15.9	21.2	25.7	28.9	30.6	30.5	28.8	25.4	20.8	15.4	10.0	5.28	1.87	0.26	279	278
-30	0.18	1.53	4.62	9.12	14.0	18.7	22.8	25.7	27.2	27.2	25.5	22.5	18.3	13.5	8.73	4.54	1.61	0.24	246	246
-40	0.16	1.25	3.81	7.57	11.6	15.5	18.9	21.4	22.7	22.7	21.3	18.7	15.1	11.1	7.09	3.66	1.31	0.20	205	204
-50	0.13	0.95	2.87	5.67	8.65	11.6	14.3	16.1	17.1	17.0	16.0	14.1	11.3	8.17	5.19	2.69	0.99	0.17	153	152
-60	0.10	0.65	1.87	3.65	5.50	7.34	8.84	9.73	10.0	10.0	9.62	8.67	7.07	5.12	3.26	1.72	0.68	0.14	94.1	92.0
-70	0.07	0.39	1.00	1.77	2.56	3.37	3.96	4.21	4.25	4.21	4.09	3.77	3.12	2.29	1.52	0.89	0.41	0.10	42.0	27.8
-80	0.07	0.39	1.00	1.77	2.56	3.37	3.96	4.21	4.25	4.21	4.09	3.77	3.12	2.29	1.52	0.89	0.41	0.10	42.0	27.8
-90	0.07	0.39	1.00	1.77	2.56	3.37	3.96	4.21	4.25	4.21	4.09	3.77	3.12	2.29	1.52	0.89	0.41	0.10	42.0	27.8
HORIZONTAL (DEG)																				
Φ t	2.80	22.3	66.1	129	200	269	329	371	393	392	369	325	264	195	125	66.5	24.3	3.76	3616	
Φ a	0.40	19.0	63.3	126	197	267	326	369	390	390	366	322	262	192	123	63.5	21.3	1.28		3493

Test System: HOP00 HPG1800
Temperature: 25.3 DEG
Operators: RD
Test Date: 10-23-2020

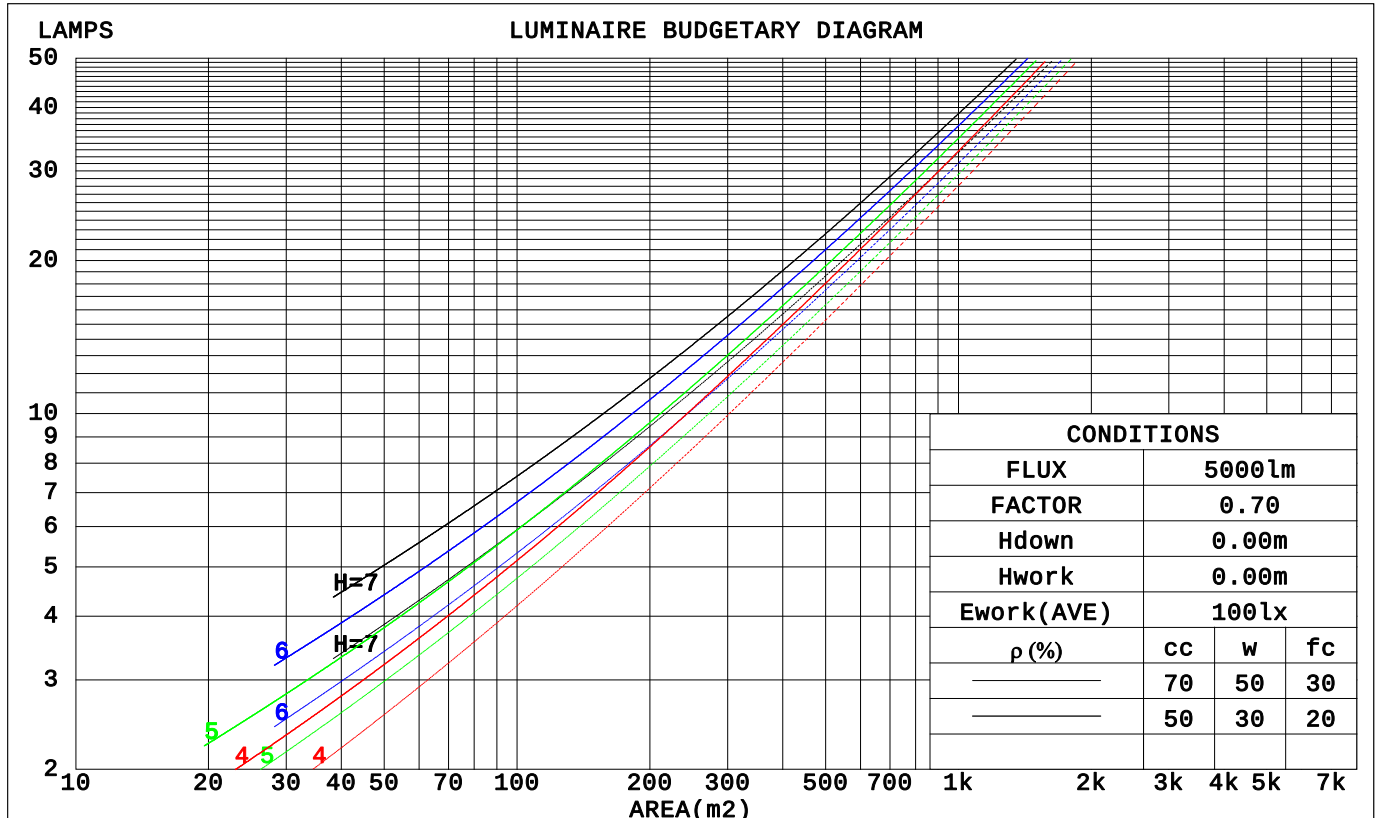
Test Set: 5.0 deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 8.000 m
Remarks: COB IES

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number: HLRP10234

MANUFACTURER: HAVIT COMMERCIAL																
Address:																
NAME: HCP-3825365									TYPE: 2835 CRI95				WEIGHT:			
SPECIFICATION: 5000K									DIMENSION: 240mm x 480mm				SERIAL No.: 01			

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	.98
1.0	1.03	.98	.94	1.00	.96	.93	.96	.92	.89	.92	.89	.86	.88	.85	.83	.81
2.0	.89	.82	.76	.87	.81	.75	.83	.78	.73	.80	.75	.71	.76	.73	.69	.67
3.0	.78	.70	.63	.76	.69	.62	.73	.66	.61	.70	.64	.60	.67	.62	.58	.56
4.0	.69	.60	.53	.67	.59	.53	.65	.57	.52	.62	.56	.51	.60	.54	.50	.48
5.0	.61	.52	.45	.60	.52	.45	.58	.50	.44	.56	.49	.44	.54	.48	.43	.41
6.0	.55	.46	.39	.54	.45	.39	.52	.44	.39	.50	.43	.38	.48	.42	.38	.36
7.0	.50	.41	.35	.49	.41	.35	.47	.40	.34	.46	.39	.34	.44	.38	.33	.31
8.0	.45	.37	.31	.45	.36	.31	.43	.36	.30	.42	.35	.30	.40	.34	.30	.28
9.0	.42	.33	.28	.41	.33	.28	.40	.32	.27	.38	.32	.27	.37	.31	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.37	.30	.25	.36	.29	.25	.35	.29	.24	.23



Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:RD
Test Date:10-23-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: COB IES

WEC AND CCEC

Report number: HLRP10234

MANUFACTURER: HAVIT COMMERCIAL														
Address:														
NAME: HCP-3825365							TYPE: 2835 CRI95					WEIGHT:		
SPECIFICATION: 5000K							DIMENSION: 240mm x 480mm					SERIAL No.: 01		

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.321	.182	.058	.313	.179	.057	.299	.171	.055	.286	.165	.053	.273	.158	.051	
2.0	.299	.164	.050	.292	.161	.050	.280	.155	.048	.268	.150	.047	.257	.145	.046	
3.0	.275	.147	.044	.269	.144	.043	.258	.140	.043	.248	.136	.042	.238	.132	.041	
4.0	.253	.132	.039	.248	.130	.038	.238	.126	.038	.229	.123	.037	.220	.120	.036	
5.0	.234	.119	.035	.229	.118	.034	.220	.115	.034	.212	.112	.033	.204	.109	.033	
6.0	.216	.108	.031	.212	.107	.031	.204	.105	.030	.197	.102	.030	.190	.100	.030	
7.0	.201	.099	.028	.197	.098	.028	.190	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.188	.092	.026	.184	.091	.026	.178	.089	.025	.172	.087	.025	.166	.085	.025	
9.0	.176	.085	.024	.173	.084	.024	.167	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.165	.079	.022	.162	.078	.022	.157	.077	.022	.152	.075	.021	.147	.074	.021	

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.204	.204	.204	.175	.175	.175	.119	.119	.119	.069	.069	.069	.022	.022	.022	
1.0	.195	.170	.148	.167	.146	.127	.114	.100	.088	.066	.058	.051	.021	.019	.017	
2.0	.187	.146	.111	.160	.126	.096	.110	.087	.067	.063	.051	.039	.020	.016	.013	
3.0	.180	.129	.088	.154	.111	.076	.106	.077	.053	.061	.045	.031	.020	.015	.010	
4.0	.172	.115	.072	.148	.100	.063	.102	.069	.044	.059	.041	.026	.019	.013	.009	
5.0	.165	.105	.061	.141	.091	.053	.097	.064	.037	.056	.037	.022	.018	.012	.007	
6.0	.158	.097	.053	.135	.084	.046	.093	.059	.033	.054	.035	.019	.017	.011	.006	
7.0	.151	.090	.047	.130	.078	.041	.090	.055	.029	.052	.032	.017	.017	.011	.006	
8.0	.144	.084	.043	.124	.073	.037	.086	.051	.027	.050	.030	.016	.016	.010	.005	
9.0	.138	.079	.039	.119	.069	.034	.082	.048	.024	.048	.029	.015	.016	.009	.005	
10.0	.132	.075	.037	.114	.065	.032	.079	.046	.023	.046	.027	.014	.015	.009	.005	

Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:RD
Test Date:10-23-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: COB IES

Uncorrected UGR Table

Report number: HLRP10234

MANUFACTURER: HAVIT COMMERCIAL										
Address:										
NAME: HCP-3825365					TYPE: 2835 CRI95			WEIGHT:		
SPECIFICATION: 5000K					DIMENSION: 240mm x 480mm			SERIAL No.: 01		
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	30.6	32.1	30.9	32.3	32.6	31.1	32.6	31.4	32.9	33.1
3H	32.2	33.6	32.5	33.9	34.2	32.9	34.3	33.2	34.6	34.9
4H	32.9	34.2	33.2	34.5	34.8	33.6	35.0	34.0	35.3	35.6
6H	33.4	34.6	33.7	34.9	35.2	34.2	35.5	34.6	35.8	36.1
8H	33.5	34.7	33.9	35.0	35.4	34.5	35.7	34.9	36.0	36.4
12H	33.6	34.8	34.0	35.1	35.4	34.8	35.9	35.1	36.3	36.6
4H 2H	31.4	32.7	31.7	33.0	33.3	31.8	33.1	32.1	33.4	33.7
3H	33.2	34.4	33.6	34.7	35.1	33.8	34.9	34.2	35.3	35.6
4H	34.0	35.1	34.4	35.4	35.8	34.7	35.7	35.1	36.1	36.5
6H	34.6	35.6	35.0	36.0	36.4	35.4	36.4	35.9	36.8	37.2
8H	34.8	35.7	35.2	36.1	36.5	35.8	36.7	36.2	37.1	37.5
12H	35.0	35.8	35.4	36.2	36.6	36.1	36.9	36.6	37.3	37.8
8H 4H	34.4	35.3	34.9	35.7	36.1	35.0	35.9	35.4	36.3	36.7
6H	35.2	36.0	35.7	36.4	36.9	36.0	36.7	36.5	37.2	37.6
8H	35.5	36.2	36.0	36.6	37.1	36.5	37.1	37.0	37.6	38.1
12H	35.8	36.3	36.3	36.8	37.3	36.9	37.5	37.4	38.0	38.5
12H 4H	34.5	35.3	34.9	35.7	36.2	35.0	35.8	35.5	36.2	36.7
6H	35.4	36.0	35.8	36.5	37.0	36.1	36.7	36.6	37.2	37.7
8H	35.7	36.3	36.2	36.8	37.3	36.6	37.2	37.1	37.7	38.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 3616 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.5)

Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:RD
Test Date:10-23-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: COB IES

UTILIZATION FACTORS TABLE

Report number: HLRP10234

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825365	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01

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) $k(RI) \times RCR = 5$									
$k = 0.60$	56	44	37	55	44	37	54	43	37	30
0.80	66	54	46	65	53	46	63	53	46	39
1.00	74	63	55	73	62	55	71	63	54	47
1.25	81	71	63	80	70	63	77	68	62	54
1.50	86	76	69	85	75	68	81	73	67	59
2.00	94	85	78	92	83	77	88	81	75	67
2.50	98	89	83	95	88	82	91	85	80	71
3.00	101	94	88	99	92	87	94	89	84	75
4.00	105	99	94	103	97	93	98	94	90	80
5.00	108	103	98	105	100	97	100	97	93	83
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

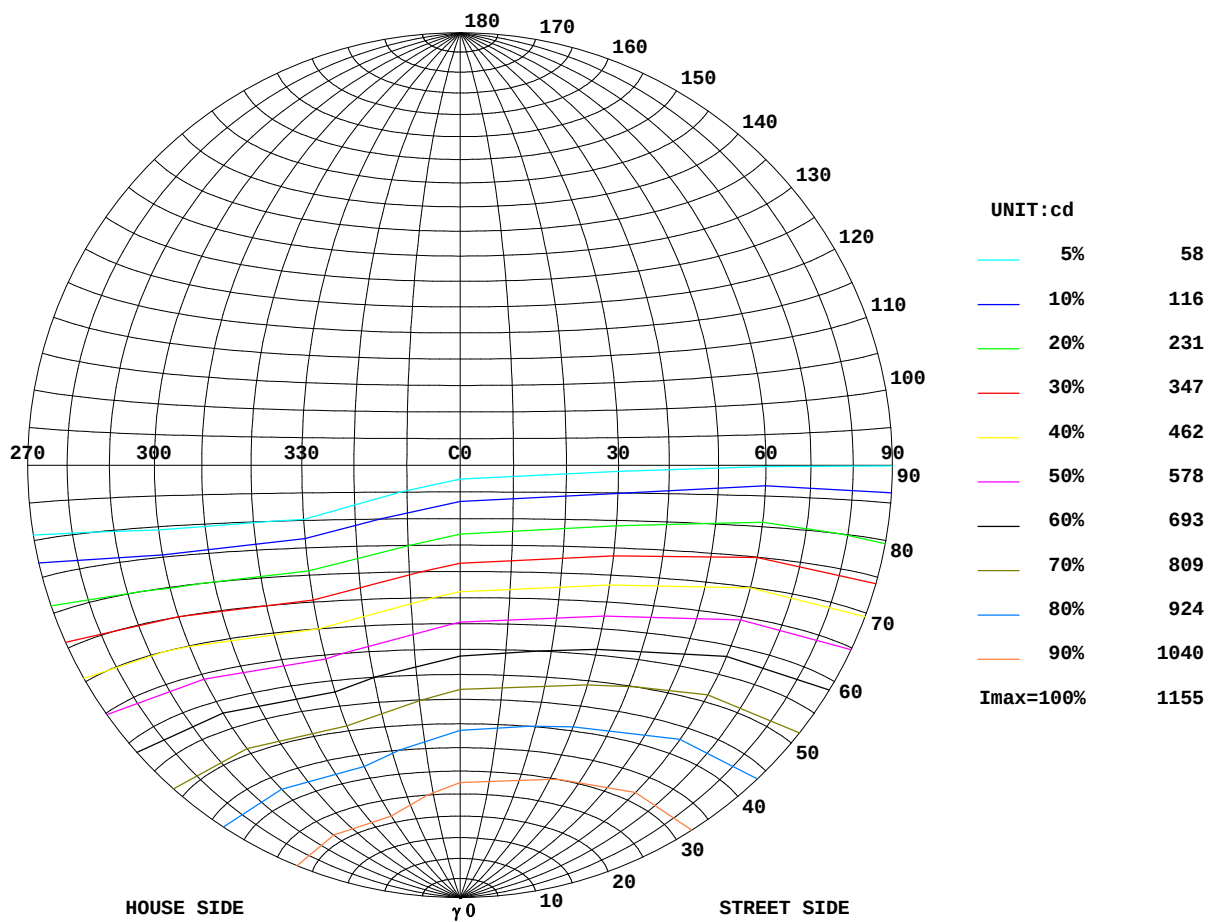
Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:RD
Test Date:10-23-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: COB IES

ISOCANDELA DIAGRAM

Report number: HLRP10234

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825365	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01



Test System: HOP00 HPG1800
Temperature: 25.3 DEG
Operators: RD
Test Date: 10-23-2020

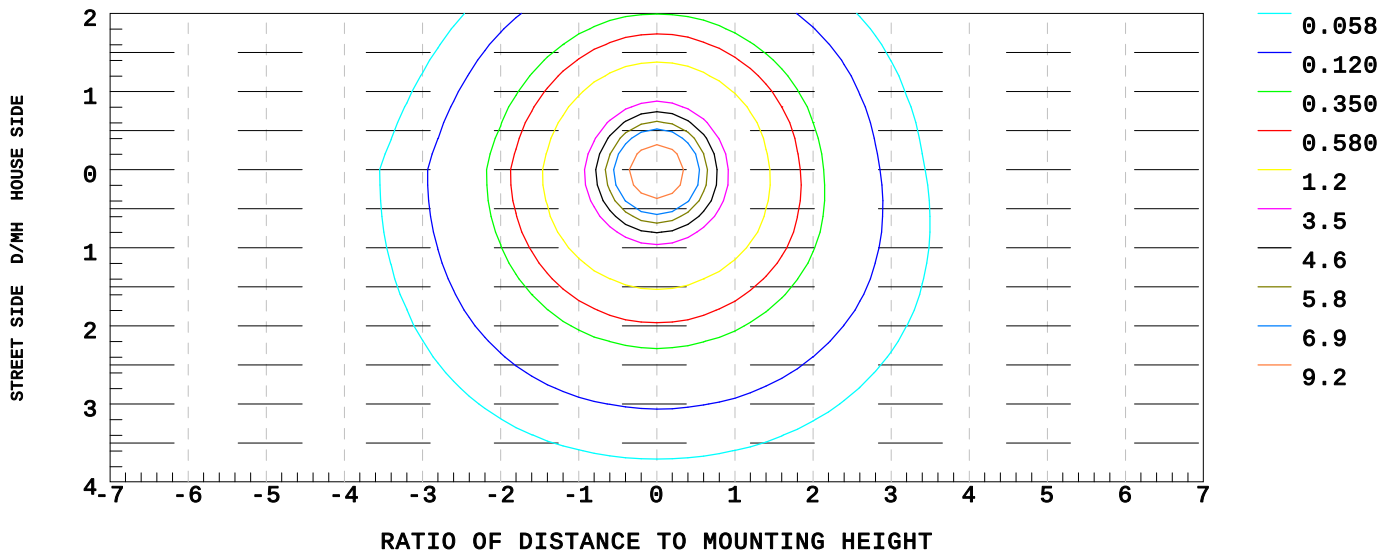
Test Set: 5.0 deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 8.000 m
Remarks: COB IES

ISOLUX DIAGRAM

Report number: HLRP10234

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825365	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01

ILLUMINANCE AT MH=10 m, Enadir = 11.54 lx



Test System:HOP00 HPG1800

Temperature:25.3DEG

Operators:RD

Test Date:10-23-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)

Humidity:65.0%

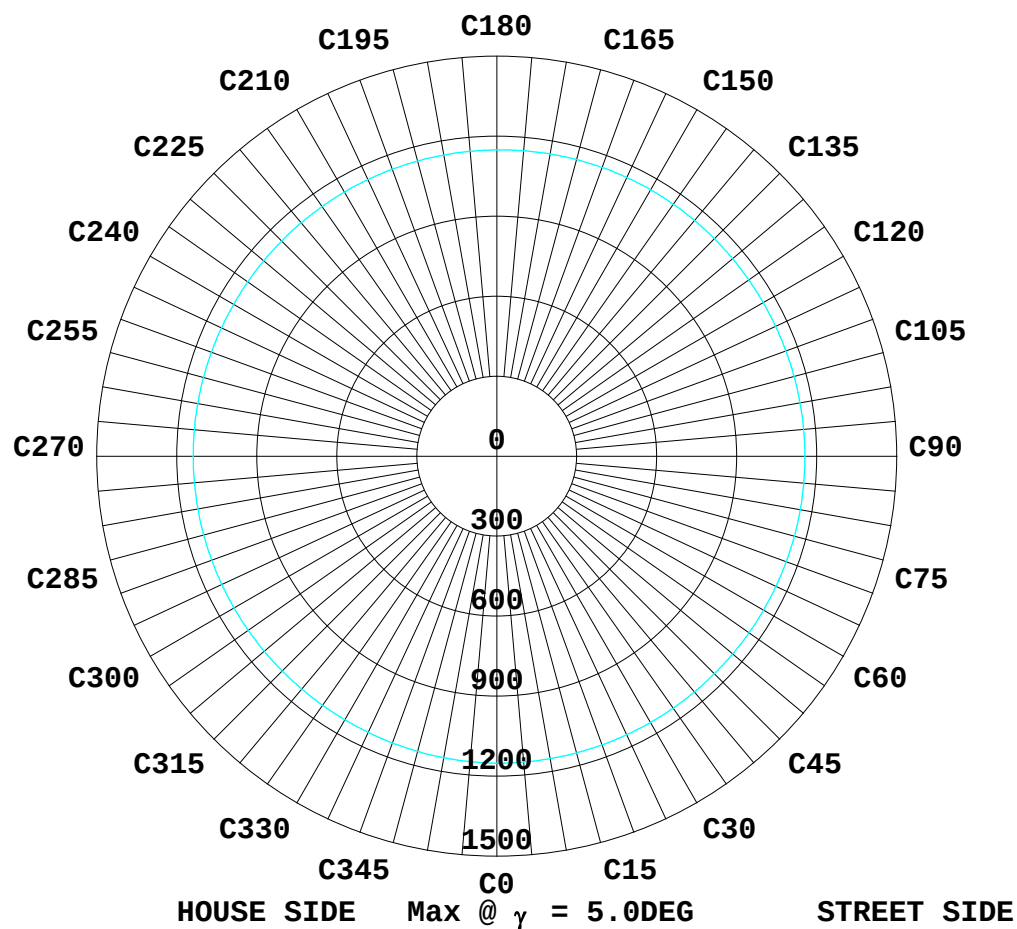
Test Distance:8.000 m

Remarks: COB IES

ISOCANDELA DIAGRAM

Report number: HLRP10234

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825365	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01



Test System: HOP00 HPG1800
Temperature: 25.3DEG
Operators: RD
Test Date: 10-23-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 8.000 m
Remarks: COB IES

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: HLRP10234

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825365	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0.0	1154	1153	1152	1151	1149	1152	1154	1153	1152	1151	1149	1152
5.0	1151	1153	1155	1155	1153	1154	1149	1144	1140	1139	1138	1141
10.0	1141	1146	1151	1152	1150	1150	1137	1128	1122	1119	1119	1123
15.0	1122	1131	1139	1141	1140	1137	1116	1104	1094	1091	1089	1096
20.0	1095	1108	1119	1122	1121	1117	1087	1071	1058	1053	1052	1061
25.0	1061	1077	1092	1096	1094	1088	1051	1032	1015	1009	1009	1019
30.0	1018	1038	1055	1061	1058	1051	1006	982	963	955	955	967
35.0	967	990	1010	1017	1014	1006	952	925	902	892	894	907
40.0	907	934	958	966	963	953	891	860	834	823	825	840
45.0	839	869	897	905	902	890	820	785	751	744	742	763
50.0	764	797	828	836	835	819	736	702	665	654	655	666
55.0	667	712	749	756	758	738	651	610	573	561	563	584
60.0	582	623	659	670	665	650	555	512	472	459	461	484
65.0	485	527	567	573	575	557	453	408	364	347	354	379
70.0	380	423	459	450	471	454	346	300	253	226	246	274
75.0	272	314	345	324	352	345	239	196	147	120	144	170
80.0	172	210	245	222	252	238	138	103	65.2	49.9	59.5	81.3
85.0	84.3	113	145	137	152	132	55.4	33.9	12.6	9.47	12.0	25.7
90.0	28.0	41.8	53.8	56.3	66.6	52.3	12.9	8.12	4.35	5.37	4.35	5.95
95.0	6.78	9.66	13.7	10.3	16.1	13.6	4.54	5.88	5.05	5.82	5.05	6.01
100.0	6.59	5.12	5.95	4.54	5.95	4.99	5.18	6.33	5.82	6.52	5.88	6.59
105.0	7.16	5.88	6.40	5.31	6.40	5.76	6.01	6.97	6.59	7.23	6.65	7.29
110.0	7.80	6.65	6.97	6.14	6.97	6.52	6.84	7.68	7.42	8.00	7.55	8.00
115.0	8.51	7.48	7.61	6.97	7.61	7.29	7.68	8.38	8.25	8.76	8.38	8.76
120.0	9.34	8.38	8.38	7.87	8.38	8.12	8.51	9.21	9.15	9.60	9.28	9.53
125.0	10.1	9.21	9.15	8.70	9.15	8.96	9.40	10.0	9.98	10.3	10.1	10.3
130.0	10.9	10.1	9.98	9.60	9.92	9.85	10.3	10.8	10.8	11.1	11.0	11.1
135.0	11.7	10.9	10.8	10.4	10.7	10.7	11.1	11.5	11.5	11.9	11.7	11.9
140.0	12.4	11.7	11.6	11.3	11.4	11.5	11.9	12.2	12.2	12.6	12.5	12.5
145.0	13.0	12.4	12.4	12.0	12.2	12.2	12.6	12.9	12.9	13.2	13.1	13.1
150.0	13.6	13.1	13.1	12.8	12.8	12.9	13.1	13.5	13.5	13.8	13.7	13.7
155.0	14.0	13.6	13.6	13.4	13.4	13.5	13.7	14.0	14.0	14.3	14.2	14.2
160.0	14.5	14.2	14.2	14.0	13.9	14.0	14.2	14.5	14.4	14.8	14.6	14.6
165.0	15.0	14.5	14.6	14.5	14.4	14.5	14.7	14.9	14.8	15.2	14.9	14.9
170.0	15.3	14.9	15.0	15.0	14.8	14.9	15.1	15.1	15.1	15.4	15.2	15.2
175.0	15.5	15.1	15.3	15.3	15.1	15.1	15.4	15.2	15.3	15.6	15.3	15.3
180.0	15.6	15.2	15.4	15.6	15.4	15.2	15.6	15.2	15.3	15.6	15.2	15.3

Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:RD
Test Date:10-23-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
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