HAVIT COMMERCIAL
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E-mail:sales@havitcommercial.com.au

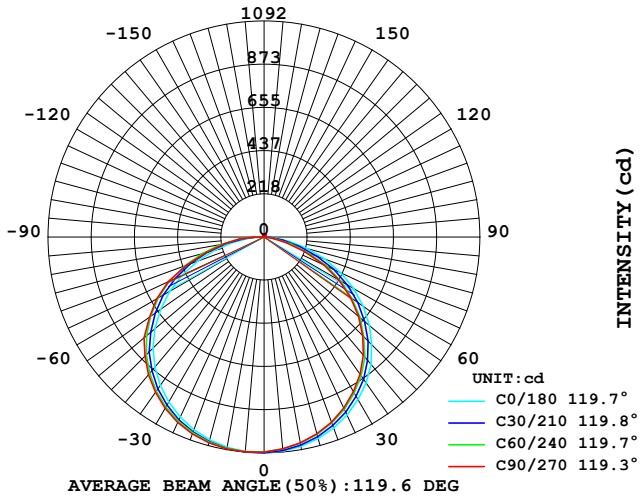
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number: HLRP10235

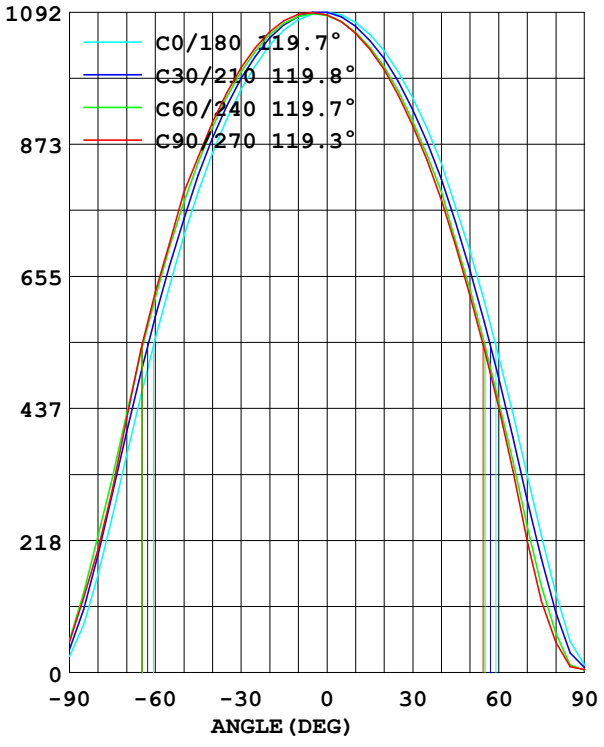
MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825364	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 4000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01

DATA OF LAMP		Imax(cd)	1092	S/MH(C0/180)	1.31
MODEL	HCP-3825364	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.37
NOMINAL POWER(W)	36	TOTAL FLUX(lm)	3416.8	Voltage(V)	24.00
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	95.0	Current(A)	1.498
NOMINAL FLUX(lm)	3416.8	η up(%)	1.8	Power(W)	35.95
LAMPS QUANTITY	1	η down(%)	98.2	Power Factor(PF)	1.000
TEST VOLTAGE(V)	24.0	Effictive Flux(lm)	3301.2	EEI	0.148

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO 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

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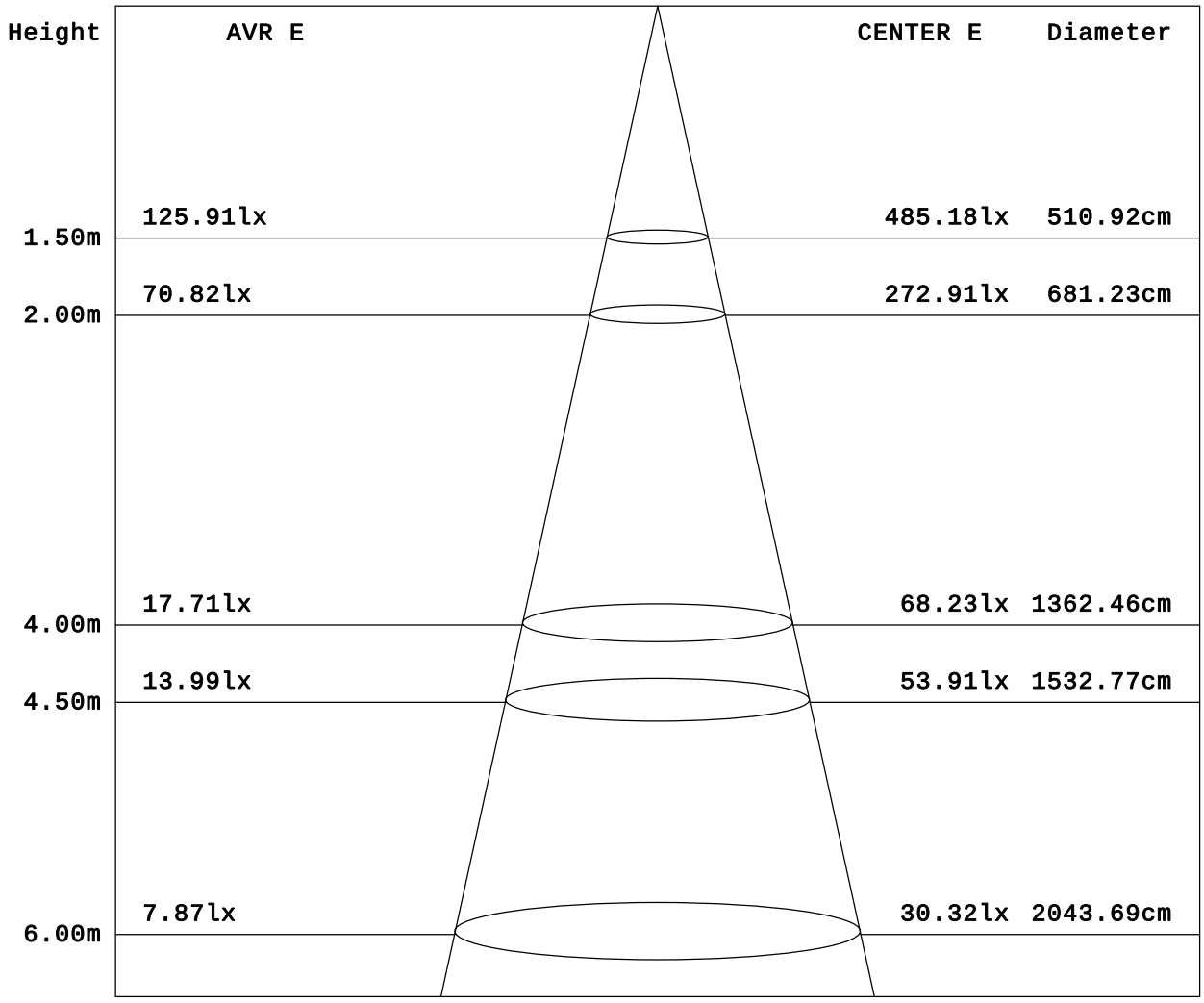
AVERAGE AND CENTER E Figure

Report number: HLRP10235

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825364	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 4000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01



Angle:119.2deg

Test System:HOPOO 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

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ZONAL FLUX DIAGRAM

Report number: HLRP10235

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825364	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 4000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
10.0	1079	1085	1088	1086	1075	1064	1057	1059	0- 10	103.2	103.2
20.0	1037	1052	1060	1056	1028	1008	996.9	1001	10- 20	298.1	401.3
30.0	963.9	987.8	1000	995.3	950.0	921.1	904.0	910.2	20- 30	459.1	860.4
40.0	858.1	891.7	908.7	902.2	841.0	804.7	780.6	794.8	30- 40	566.0	1427
50.0	721.7	763.1	793.5	776.6	696.6	649.2	623.0	632.9	40- 50	601.9	2029
60.0	552.3	603.8	628.9	620.3	523.7	469.1	440.6	450.8	50- 60	557.4	2586
70.0	358.0	411.9	418.2	431.7	325.8	263.1	217.0	248.7	60- 70	433.9	3020
80.0	161.2	210.1	203.7	226.3	131.5	82.49	50.62	70.11	70- 80	250.3	3270
90.0	26.87	46.23	50.43	51.10	12.60	6.080	5.056	4.928	80- 90	84.43	3355
100.0	6.272	5.280	4.352	5.216	4.928	5.760	6.144	5.888	90-100	12.74	3367
110.0	7.424	6.528	5.888	6.432	6.400	7.104	7.488	7.296	100-110	6.497	3374
120.0	8.832	7.936	7.424	7.808	8.000	8.640	9.024	8.864	110-120	7.503	3381
130.0	10.36	9.536	9.152	9.408	9.664	10.20	10.49	10.43	120-130	8.166	3390
140.0	11.77	11.07	10.75	10.91	11.20	11.61	11.90	11.84	130-140	8.231	3398
150.0	12.92	12.38	12.16	12.22	12.48	12.76	13.05	12.96	140-150	7.537	3405
160.0	13.82	13.44	13.24	13.31	13.50	13.72	14.01	13.82	150-160	6.060	3411
170.0	14.52	14.17	14.20	14.08	14.33	14.33	14.65	14.40	160-170	3.952	3415
180.0	14.78	14.52	14.72	14.49	14.72	14.55	14.78	14.49	170-180	1.379	3417
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO 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
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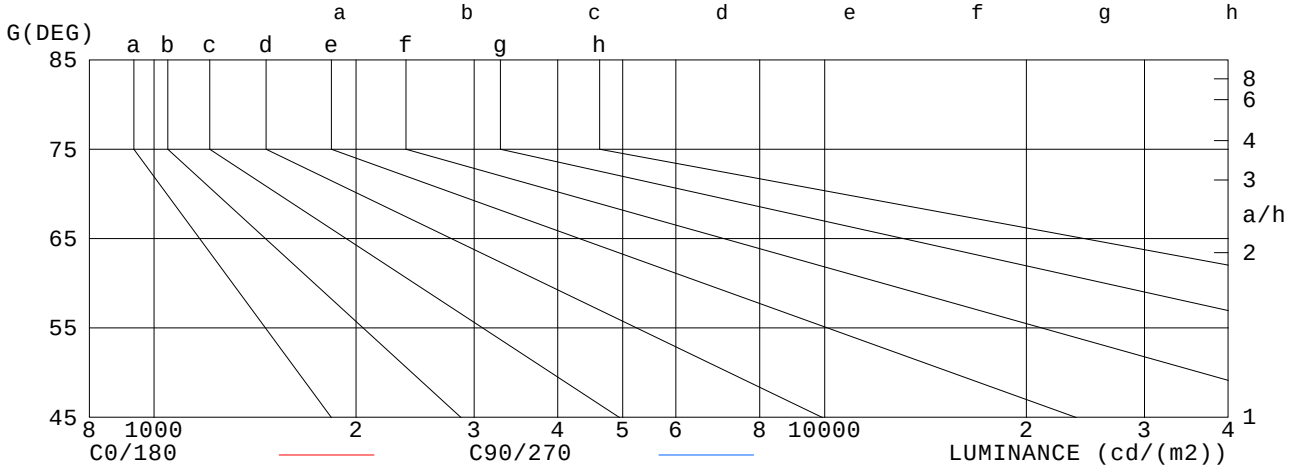
LUMINANCE LIMITATION CURVES

Report number: HLRP10235

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825364	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 4000K	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
		a	b	c	d	e	f	g	h



LUMINANCE cd/m2		
G(DEG)	C0/180	C90/270
85	112993	177062
80	116051	146641
75	124937	146048
70	130846	152856
65	135404	158043
60	138080	157232
55	139071	154455
50	140364	154328
45	140494	150676

Test System:HOPOO 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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Remarks: COB IES

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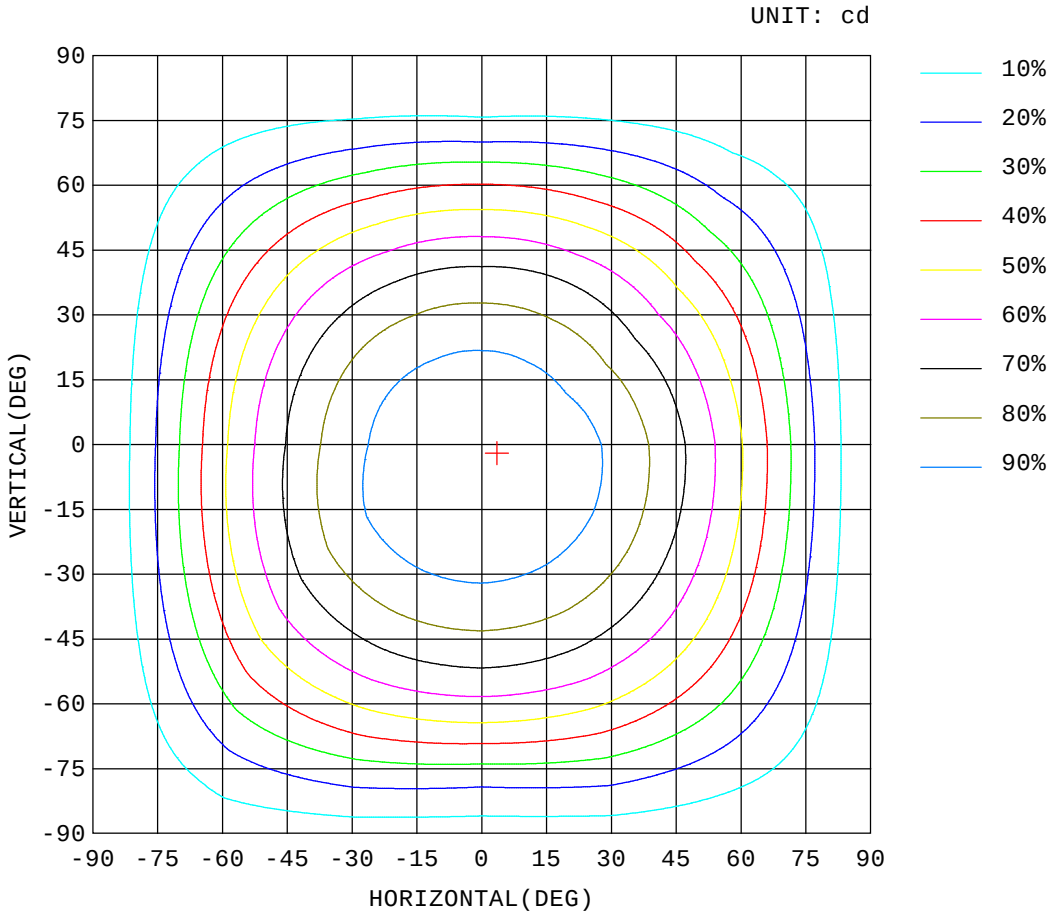
ISOCANDELA DIAGRAM

Report number: HLRP10235

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825364	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 4000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01



Test System:HOPOO 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

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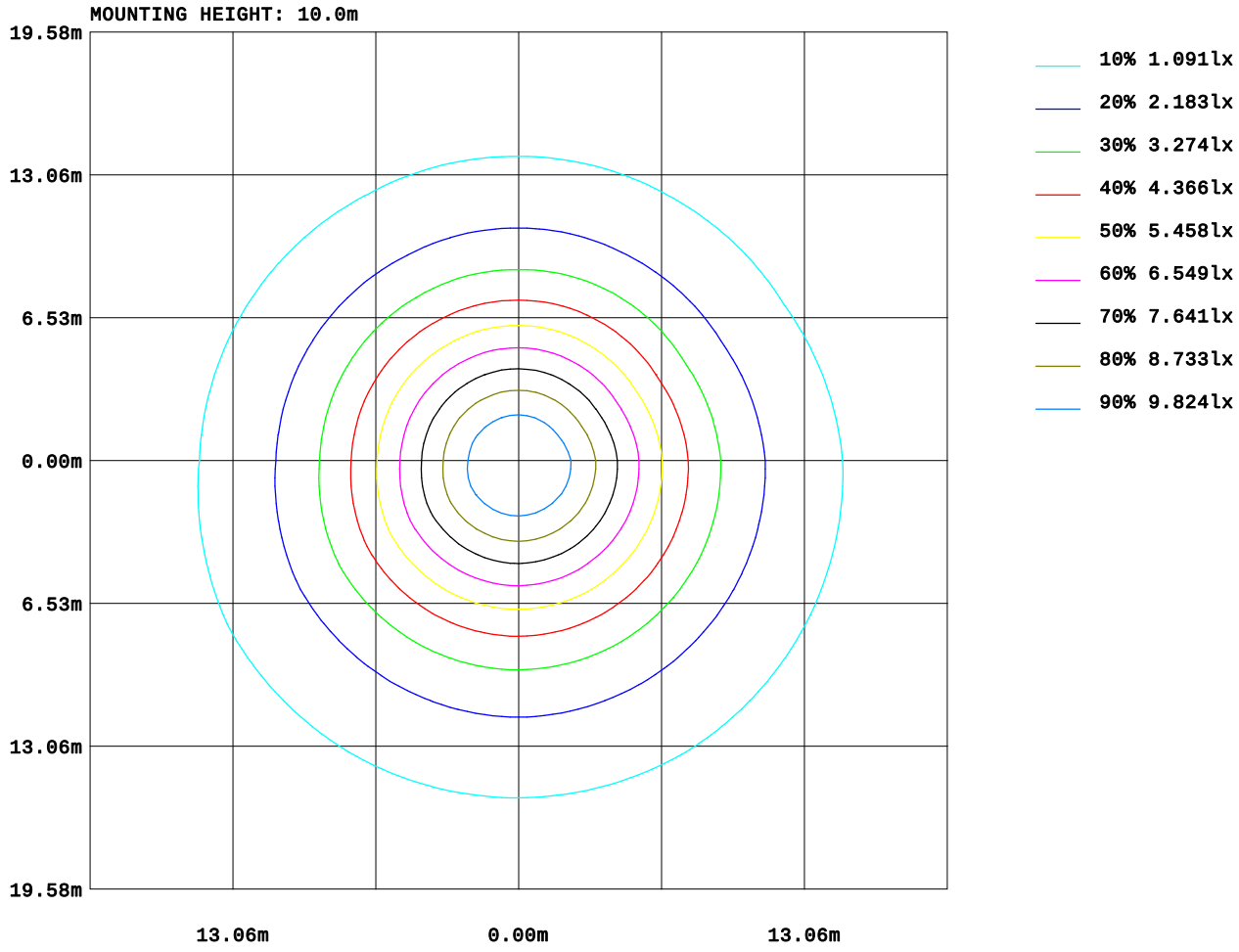
ISOLUX DIAGRAM

Report number: HLRP10235

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825364	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 4000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01



Test System:HOPOO 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

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AREA LUMINOUS FLUX

Report number: HLRP10235

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825364	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 4000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01

AREA FLUX DIAGRAM — UNIT:lm

VERTICAL(DEG)	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL(DEG) 20	30	40	50	60	70	80	90	Φ t	Φ a
90	0.04	0.15	0.26	0.36	0.44	0.48	0.53	0.58	0.59	0.58	0.57	0.50	0.44	0.37	0.28	0.25	0.20	0.07	6.67	0.00
80	0.06	0.29	0.71	1.34	2.05	2.72	3.31	3.76	3.89	3.87	3.71	3.23	2.54	1.80	1.10	0.66	0.35	0.10	35.5	21.2
70	0.08	0.51	1.48	2.94	4.67	6.47	8.11	9.41	10.0	10.0	9.29	7.93	6.21	4.33	2.58	1.38	0.58	0.13	86.2	83.4
60	0.11	0.80	2.38	4.73	7.61	10.5	13.0	15.0	16.1	16.0	14.9	12.8	10.1	7.18	4.36	2.28	0.87	0.15	139	138
50	0.13	1.08	3.25	6.50	10.3	14.1	17.4	19.9	21.2	21.2	19.7	17.1	13.7	9.83	6.17	3.22	1.17	0.19	187	186
40	0.16	1.35	4.05	8.04	12.6	17.1	21.1	24.0	25.5	25.4	23.9	20.8	16.7	12.1	7.83	4.09	1.47	0.22	227	226
30	0.19	1.58	4.72	9.24	14.3	19.5	23.9	27.0	28.7	28.6	26.8	23.6	19.0	14.1	9.20	4.84	1.73	0.25	258	258
	0.20	1.74	5.20	10.1	15.6	21.1	25.9	29.3	31.0	30.9	29.0	25.5	21.0	15.7	10.2	5.42	1.93	0.27	281	280
	0.21	1.84	5.49	10.6	16.4	22.1	27.0	30.6	32.4	32.3	30.5	27.1	22.3	16.7	10.9	5.81	2.07	0.28	295	295
	0.22	1.89	5.62	10.8	16.7	22.5	27.5	31.1	32.9	32.9	31.1	27.6	22.7	17.1	11.1	5.95	2.12	0.29	301	301
	0.22	1.89	5.60	10.8	16.6	22.5	27.4	30.7	32.4	32.4	30.6	27.2	22.4	16.7	10.9	5.82	2.07	0.28	297	297
-30	0.21	1.81	5.38	10.4	16.1	21.7	26.2	29.4	31.1	31.0	29.3	25.9	21.3	15.9	10.3	5.49	1.95	0.27	284	284
-40	0.19	1.66	4.95	9.67	14.9	20.0	24.2	27.2	28.8	28.8	27.1	23.9	19.6	14.5	9.48	4.97	1.76	0.25	262	262
-50	0.17	1.44	4.34	8.56	13.2	17.6	21.4	24.2	25.6	25.6	24.0	21.2	17.2	12.7	8.22	4.28	1.51	0.22	232	232
-60	0.15	1.17	3.58	7.09	10.8	14.6	17.8	20.1	21.4	21.3	20.0	17.6	14.2	10.4	6.65	3.45	1.22	0.19	192	192
-70	0.12	0.88	2.68	5.31	8.09	10.9	13.3	15.1	15.9	15.9	14.9	13.1	10.5	7.65	4.87	2.51	0.92	0.16	143	142
-80	0.10	0.60	1.73	3.38	5.11	6.83	8.23	9.06	9.37	9.33	8.94	8.05	6.56	4.75	3.02	1.59	0.63	0.13	87.4	85.4
-90	0.07	0.36	0.92	1.61	2.32	3.04	3.57	3.82	3.86	3.83	3.74	3.46	2.87	2.10	1.39	0.82	0.38	0.09	38.3	24.1
Φ t	2.63	21.0	62.4	122	188	254	310	351	371	371	349	307	250	184	119	62.8	22.9	3.52	3417	
Φ a	0.40	18.1	59.7	119	186	252	308	348	369	368	346	305	248	182	116	60.0	20.0	1.18		3301

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:RD
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Test Set: 5.0deg/s C-Gamma (TYPE C)
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Test Distance:8.000 m
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number: HLRP10235

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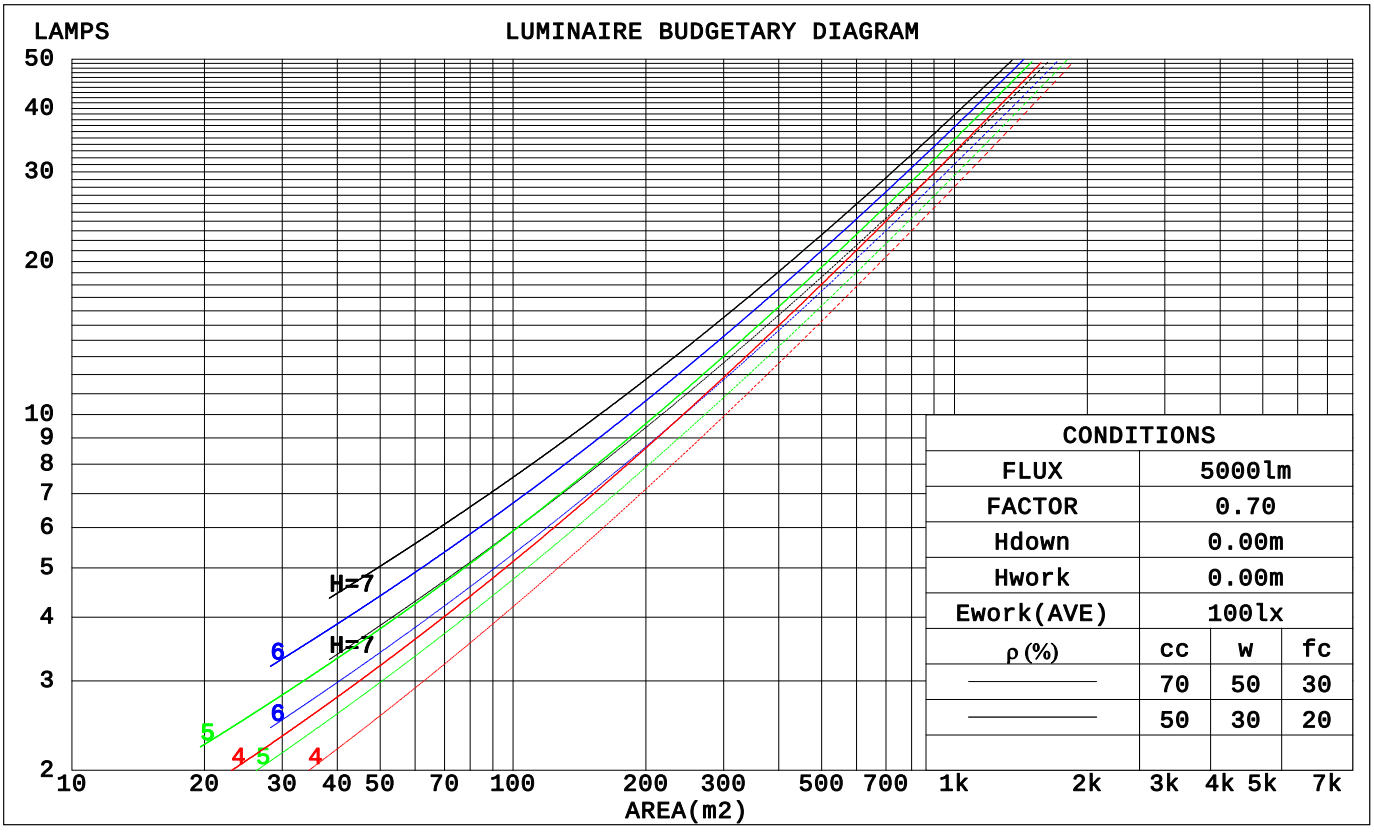
Address:		
NAME: HCP-3825364	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 4000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01

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	1.19	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	.86	.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	.40	.54	.46	.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:HOPOO HPG1800
Temperature:25.3DEG
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Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
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WEC AND CCEC

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Address:		
NAME: HCP-3825364	TYPE: 2835 CRI95	WEIGHT:
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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	.320	.182	.058	.313	.178	.057	.298	.171	.055	.285	.165	.053	.273	.158	.051	
2.0	.299	.164	.050	.292	.161	.050	.279	.155	.048	.268	.150	.047	.257	.145	.046	
3.0	.275	.147	.044	.269	.144	.043	.258	.140	.042	.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	

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	.204	.204	.204	.175	.175	.175	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.195	.170	.147	.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	.128	.088	.154	.111	.076	.106	.077	.053	.061	.045	.031	.020	.015	.010	
4.0	.172	.115	.072	.148	.100	.062	.102	.069	.044	.059	.041	.026	.019	.013	.009	
5.0	.165	.105	.061	.141	.091	.053	.097	.063	.037	.056	.037	.022	.018	.012	.007	
6.0	.157	.097	.053	.135	.084	.046	.093	.059	.033	.054	.034	.019	.017	.011	.006	
7.0	.151	.090	.047	.130	.078	.041	.089	.055	.029	.052	.032	.017	.017	.011	.006	
8.0	.144	.084	.043	.124	.073	.037	.086	.051	.026	.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	.004	

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:RD
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Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
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Remarks: COB IES

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Uncorrected UGR Table

Report number: HLRP10235

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825364	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 4000K	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	30.4	31.9	30.7	32.1	32.4	30.9	32.4	31.2	32.6	32.9
3H	32.0	33.4	32.3	33.7	34.0	32.7	34.1	33.0	34.3	34.6
4H	32.7	34.0	33.0	34.3	34.6	33.4	34.7	33.7	35.0	35.3
6H	33.2	34.4	33.5	34.7	35.0	34.0	35.2	34.3	35.5	35.8
8H	33.3	34.5	33.6	34.8	35.1	34.2	35.4	34.6	35.7	36.1
12H	33.4	34.6	33.8	34.9	35.2	34.4	35.6	34.8	35.9	36.3
4H 2H	31.1	32.5	31.5	32.8	33.1	31.5	32.9	31.9	33.2	33.5
3H	33.0	34.2	33.4	34.5	34.8	33.5	34.7	33.9	35.0	35.4
4H	33.8	34.9	34.2	35.2	35.6	34.4	35.5	34.8	35.8	36.2
6H	34.4	35.3	34.8	35.7	36.1	35.1	36.1	35.6	36.5	36.9
8H	34.6	35.5	35.0	35.9	36.3	35.5	36.3	35.9	36.7	37.2
12H	34.7	35.5	35.2	36.0	36.4	35.8	36.6	36.2	37.0	37.4
8H 4H	34.2	35.1	34.6	35.5	35.9	34.7	35.6	35.2	36.0	36.4
6H	35.0	35.7	35.4	36.2	36.6	35.7	36.4	36.2	36.9	37.3
8H	35.3	35.9	35.8	36.4	36.9	36.1	36.8	36.6	37.2	37.7
12H	35.5	36.1	36.0	36.6	37.1	36.6	37.1	37.1	37.6	38.1
12H 4H	34.3	35.1	34.7	35.5	35.9	34.7	35.6	35.2	36.0	36.4
6H	35.1	35.8	35.6	36.2	36.7	35.8	36.4	36.2	36.9	37.4
8H	35.4	36.0	36.0	36.5	37.0	36.3	36.8	36.8	37.3	37.8
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					+ 0.1 / - 0.4				

CIE Pub.117 Corrected 3417 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.3)

Test System:HOPOO 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

HAVIT COMMERCIAL
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UTILIZATION FACTORS TABLE

Report number: HLRP10235

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825364	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 4000K	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) x 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	64	54	47
1.25	81	71	63	80	70	63	77	68	62	54
1.50	87	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	85	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:HOPOO 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

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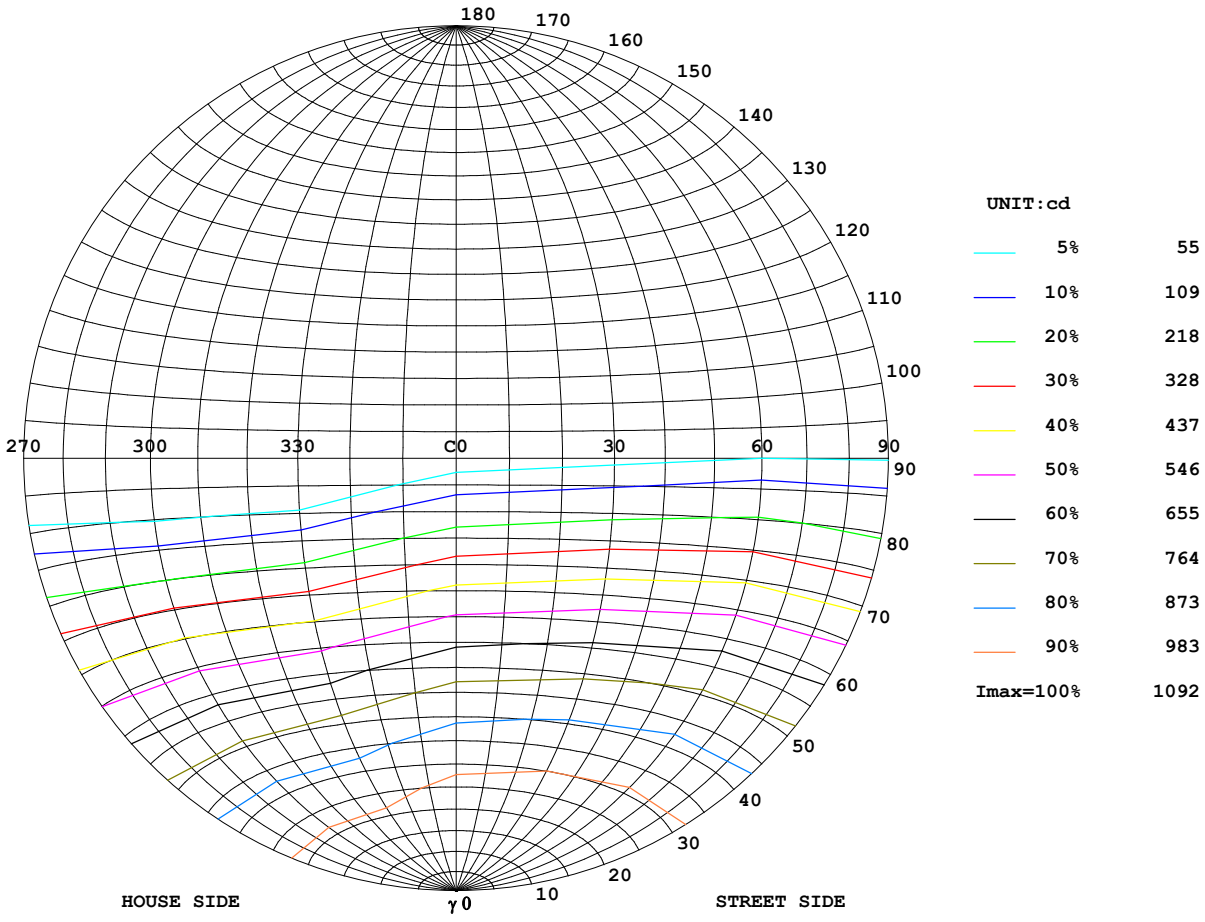
ISOCANDELA DIAGRAM

Report number: HLRP10235

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825364	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 4000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01



Test System:HOPOO 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

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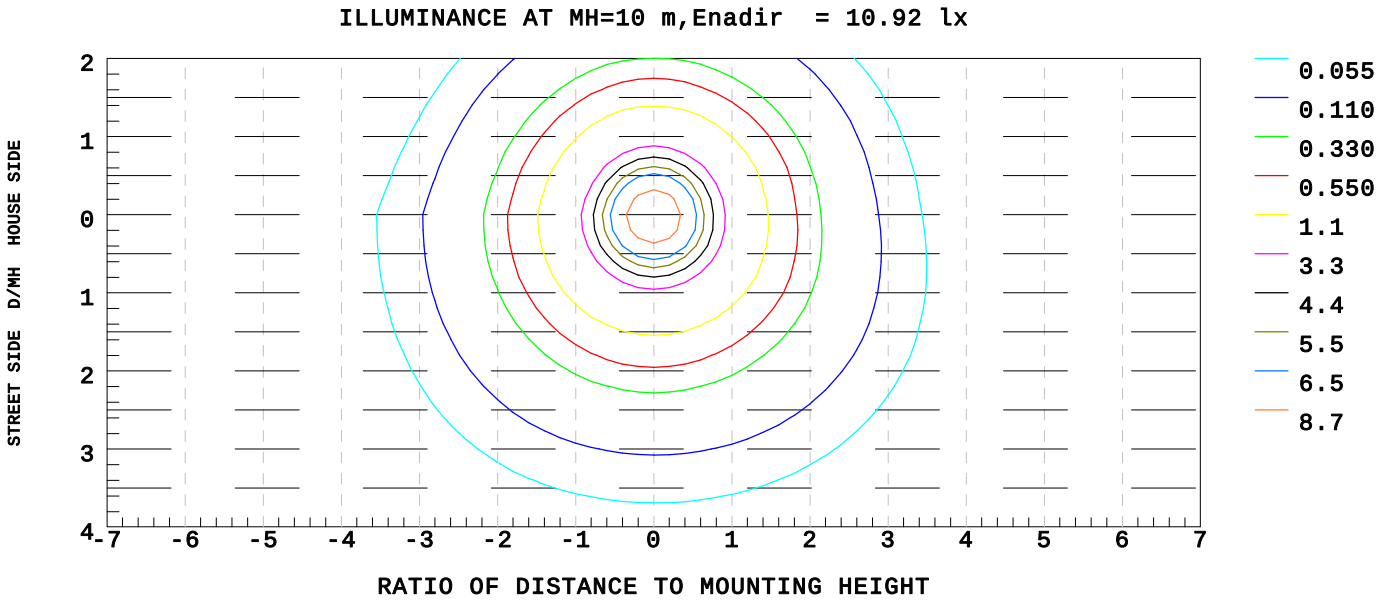
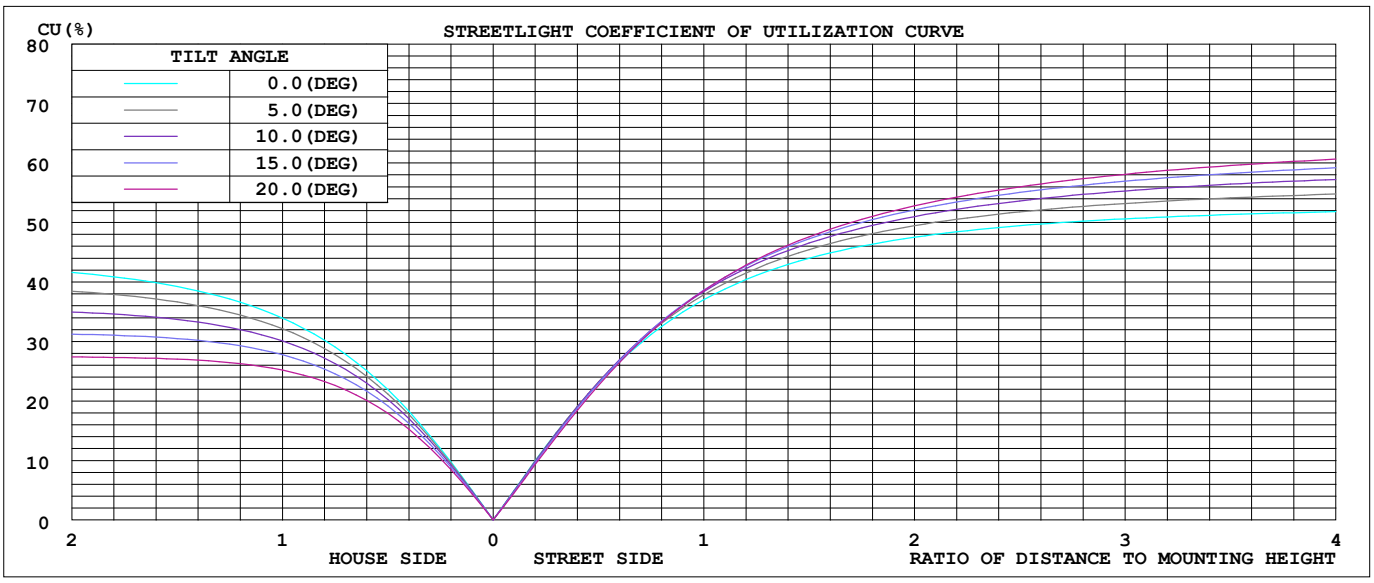
ISOLUX DIAGRAM

Report number: HLRP10235

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825364	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 4000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01





Test System:HOPOO 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

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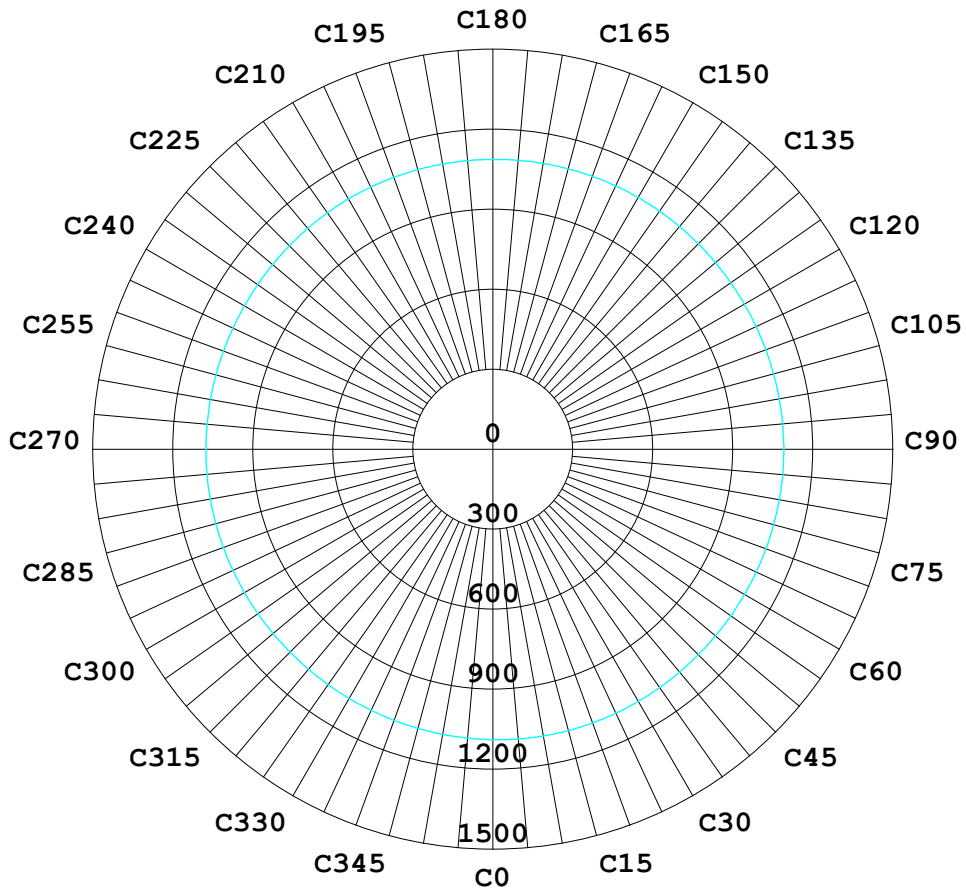
ISOCANDELA DIAGRAM

Report number: HLRP10235

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825364	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 4000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01



HOUSE SIDE Max @ γ = 5.0DEG STREET SIDE

Test System:HOPOO 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

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LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: HLRP10235

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825364	TYPE: 2835 CRI95	WEIGHT:
SPECIFICATION: 4000K	DIMENSION: 240mm x 480mm	SERIAL No.: 01

UNIT: cd

γ (DEG) \ C(DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0.0	1092	1092	1086	1087	1086	1088	1092	1092	1086	1087	1086	1088
5.0	1089	1092	1089	1091	1089	1091	1087	1084	1076	1076	1075	1079
10.0	1079	1085	1085	1088	1086	1086	1075	1069	1059	1057	1057	1061
15.0	1062	1071	1074	1078	1076	1074	1055	1045	1034	1031	1030	1036
20.0	1037	1049	1054	1060	1057	1054	1028	1015	1001	997	997	1004
25.0	1004	1019	1028	1033	1031	1027	993	977	961	954	955	964
30.0	964	982	993	1000	998	992	950	931	912	904	905	915
35.0	915	936	951	958	956	949	900	877	856	847	848	860
40.0	858	883	901	909	906	898	841	815	794	781	794	795
45.0	795	823	844	852	850	840	770	745	713	706	705	723
50.0	722	749	777	794	785	769	697	665	634	623	625	641
55.0	638	672	703	709	711	694	614	579	545	534	536	554
60.0	552	588	619	629	628	613	524	489	449	441	440	462
65.0	458	496	530	534	538	522	429	389	350	334	341	363
70.0	358	397	427	418	438	425	326	285	242	217	237	261
75.0	259	296	322	302	329	324	227	189	143	118	141	164
80.0	161	195	226	204	232	220	132	99.5	65.4	50.6	60.2	80.0
85.0	78.7	104	132	123	138	121	51.7	32.6	12.4	9.66	12.3	25.2
90.0	26.8	38.5	53.9	50.4	53.7	48.4	12.6	8.06	4.09	5.05	4.03	5.82
95.0	6.40	8.32	11.5	7.68	14.2	12.2	4.28	5.63	4.73	5.50	4.73	5.69
100.0	6.27	4.92	5.63	4.35	5.69	4.73	4.92	6.08	5.44	6.14	5.50	6.27
105.0	6.78	5.63	6.08	5.05	6.14	5.44	5.63	6.59	6.20	6.78	6.27	6.91
110.0	7.42	6.40	6.65	5.88	6.65	6.20	6.40	7.23	6.97	7.48	7.04	7.55
115.0	8.12	7.16	7.23	6.65	7.29	6.91	7.23	7.93	7.80	8.25	7.87	8.25
120.0	8.83	7.93	7.93	7.42	7.93	7.68	8.00	8.70	8.57	9.02	8.70	9.02
125.0	9.60	8.76	8.70	8.25	8.70	8.51	8.89	9.47	9.40	9.79	9.53	9.79
130.0	10.3	9.60	9.47	9.15	9.47	9.34	9.66	10.2	10.1	10.4	10.3	10.5
135.0	11.1	10.3	10.2	9.92	10.1	10.1	10.4	10.9	10.8	11.2	11.0	11.2
140.0	11.7	11.1	11.0	10.7	10.8	10.9	11.2	11.6	11.5	11.9	11.7	11.9
145.0	12.4	11.8	11.7	11.5	11.5	11.6	11.8	12.2	12.2	12.5	12.4	12.4
150.0	12.9	12.4	12.3	12.1	12.1	12.2	12.4	12.8	12.7	13.0	12.9	12.9
155.0	13.3	12.9	12.9	12.7	12.7	12.8	12.9	13.3	13.2	13.5	13.3	13.4
160.0	13.8	13.4	13.4	13.2	13.2	13.3	13.5	13.7	13.6	14.0	13.8	13.8
165.0	14.2	13.8	13.8	13.7	13.6	13.7	13.9	14.0	14.0	14.4	14.1	14.1
170.0	14.5	14.1	14.2	14.2	14.0	14.0	14.3	14.3	14.3	14.6	14.4	14.4
175.0	14.7	14.3	14.4	14.5	14.4	14.3	14.5	14.4	14.5	14.7	14.5	14.5
180.0	14.7	14.4	14.5	14.7	14.5	14.4	14.7	14.5	14.5	14.7	14.4	14.5

Test System:HOPOO HPG1800 **Test Set: 5.0deg/s C-Gamma (TYPE C)**
Temperature:25.3DEG **Humidity:65.0%**
Operators:RD **Test Distance:8.000 m**
Test Date:10-23-2020 **Remarks: COB IES**