

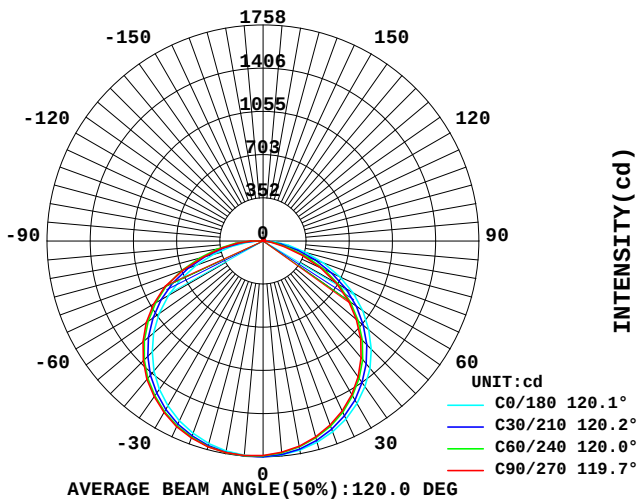
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number: HLRP10231

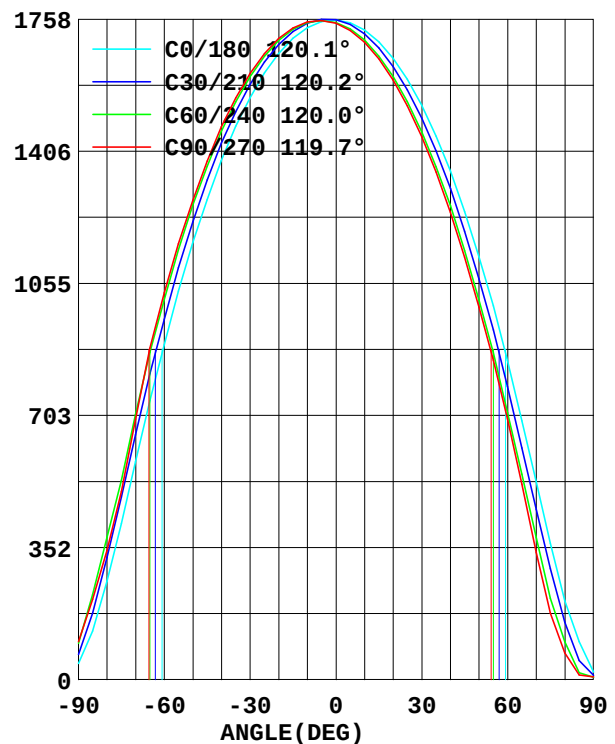
MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825605	TYPE: 2835 CRI95 288LED	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm pcb	SERIAL No.: 01

DATA OF LAMP		Imax(cd)	1758	S/MH(C0/180)	1.31
MODEL	HCP-3825605	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.37
NOMINAL POWER(W)	60	TOTAL FLUX(lm)	5507.7	Voltage(V)	24.00
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	91.4	Current(A)	2.510
NOMINAL FLUX(lm)	5507.7	η up(%)	1.8	Power(W)	60.24
LAMPS QUANTITY	1	η down(%)	98.2	Power Factor(PF)	1.000
TEST VOLTAGE(V)	24.0	Effective Flux(lm)	5319.1	EEI	0.154

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



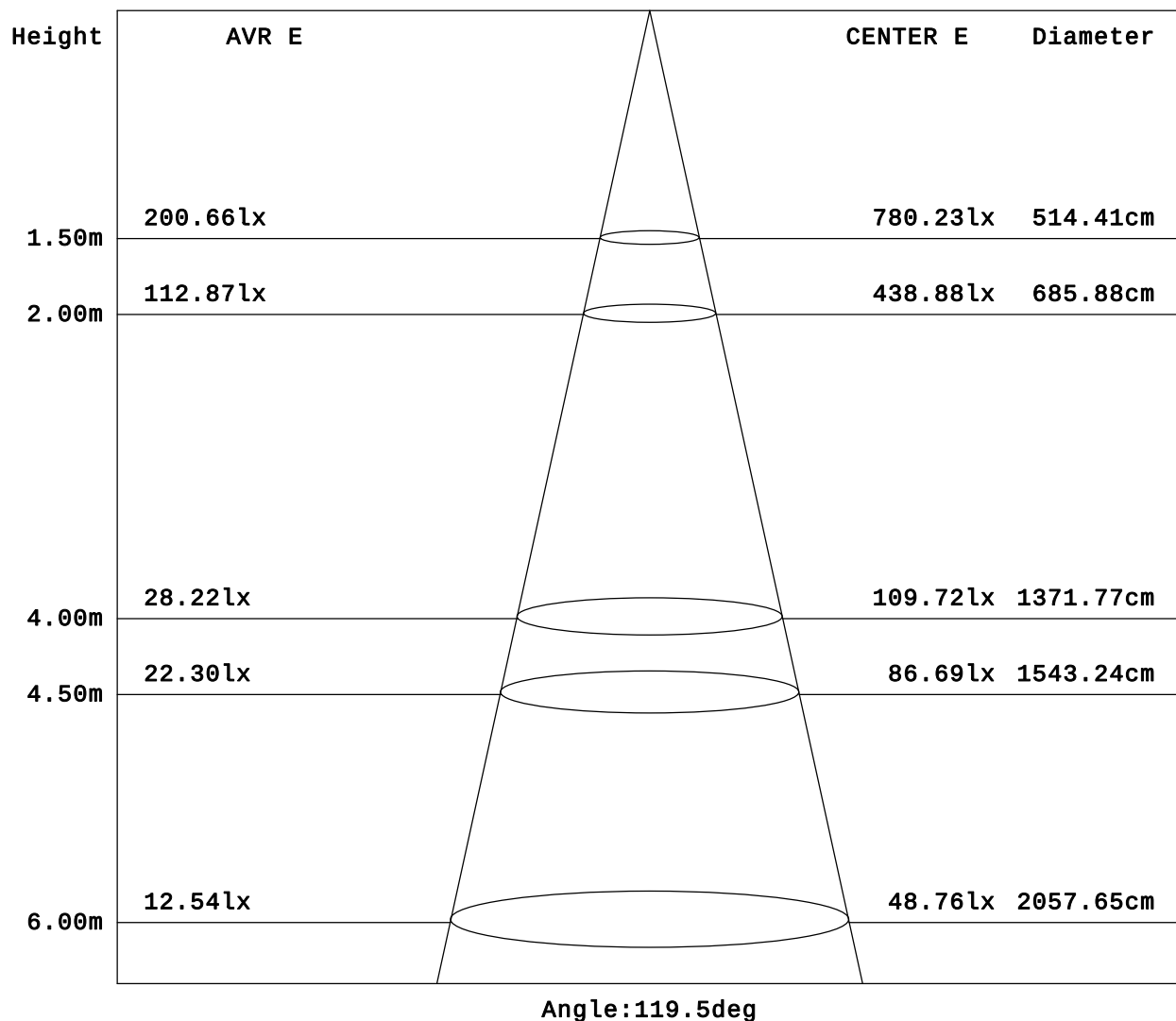
Test System: HOP00 HPG1800
Temperature: 25.3 DEG
Operators: RD
Test Date: 10-23-2020

Test Set: 5.0 deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 8.000 m
Remarks: 240mm x 480mm 288LED 5000K

AVERAGE AND CENTER E Figure

Report number: HLRP10231

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825605	TYPE: 2835 CRI95 288LED	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm pcb	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: 240mm x 480mm 288LED 5000K

ZONAL FLUX DIAGRAM

Report number: HLRP10231

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825605	TYPE: 2835 CRI95 288LED	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm pcb	SERIAL No.: 01

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
10.0	1735	1748	1750	1746	1729	1711	1696	1701	0- 10	165.9	165.9
20.0	1666	1695	1706	1698	1653	1618	1595	1605	10- 20	479.2	645.2
30.0	1549	1594	1613	1602	1529	1476	1445	1459	20- 30	737.9	1383
40.0	1382	1443	1471	1455	1354	1284	1243	1264	30- 40	909.4	2293
50.0	1163	1240	1275	1257	1125	1038	991.3	1014	40- 50	968.4	3261
60.0	891.7	985.3	1030	1007	849.2	745.7	694.1	719.1	50- 60	899.8	4161
70.0	579.5	678.5	692.1	704.9	526.0	415.2	337.4	394.1	60- 70	700.5	4862
80.0	262.1	351.9	343.6	373.1	209.7	126.6	70.72	112.3	70- 80	403.9	5265
90.0	43.32	81.66	100.6	101.5	19.96	9.120	7.552	7.520	80- 90	141.2	5407
100.0	9.472	8.064	6.784	8.032	7.872	9.024	9.472	9.216	90-100	22.53	5429
110.0	11.52	10.11	9.216	9.984	10.36	11.29	11.90	11.58	100-110	10.16	5439
120.0	13.88	12.51	11.84	12.32	12.92	13.85	14.40	14.14	110-120	11.86	5451
130.0	16.38	15.07	14.46	14.84	15.61	16.38	16.76	16.67	120-130	12.98	5464
140.0	18.75	17.60	17.08	17.34	18.04	18.65	19.00	18.94	130-140	13.14	5477
150.0	20.60	19.80	19.45	19.52	20.03	20.51	20.92	20.79	140-150	12.04	5489
160.0	22.08	21.50	21.24	21.24	21.69	22.01	22.46	22.17	150-160	9.705	5499
170.0	23.29	22.71	22.78	22.52	23.04	23.07	23.48	23.07	160-170	6.335	5505
180.0	23.68	23.36	23.68	23.23	23.61	23.32	23.68	23.26	170-180	2.212	5508
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: 240mm x 480mm 288LED 5000K

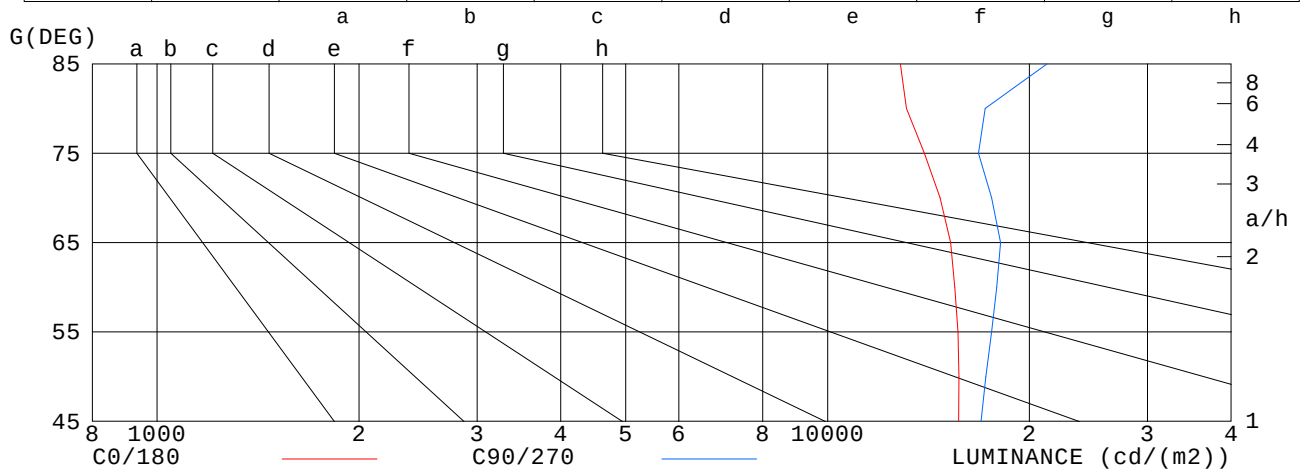
LUMINANCE LIMITATION CURVES

Report number: HLRP10231

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825605	TYPE: 2835 CRI95 288LED	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm pcb	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	12844	21239
80	13104	17180
75	13939	16788
70	14708	17567
65	15258	18124
60	15481	17877
55	15644	17559
50	15708	17217
45	15685	16934

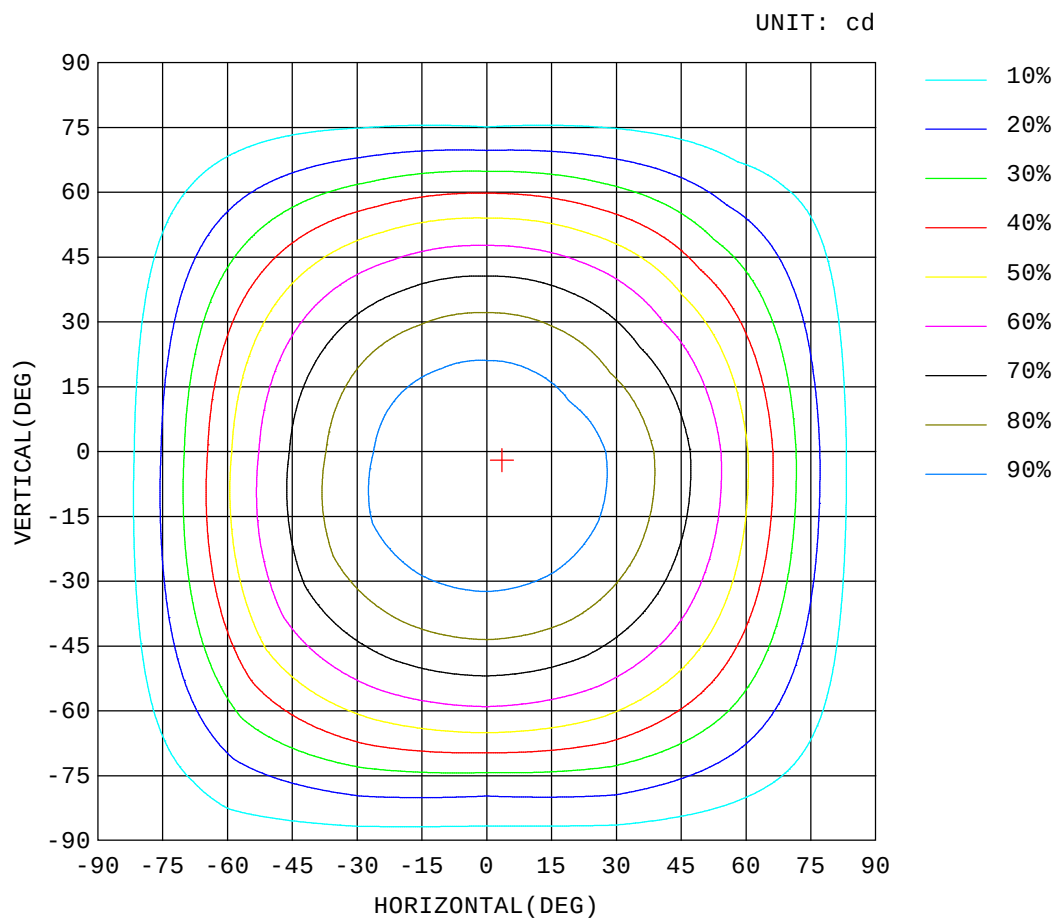
Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:RD
Test Date:10-23-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: 240mm x 480mm 288LED 5000K

ISOCANDELA DIAGRAM

Report number: HLRP10231

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825605	TYPE: 2835 CRI95 288LED	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm pcb	SERIAL No.: 01



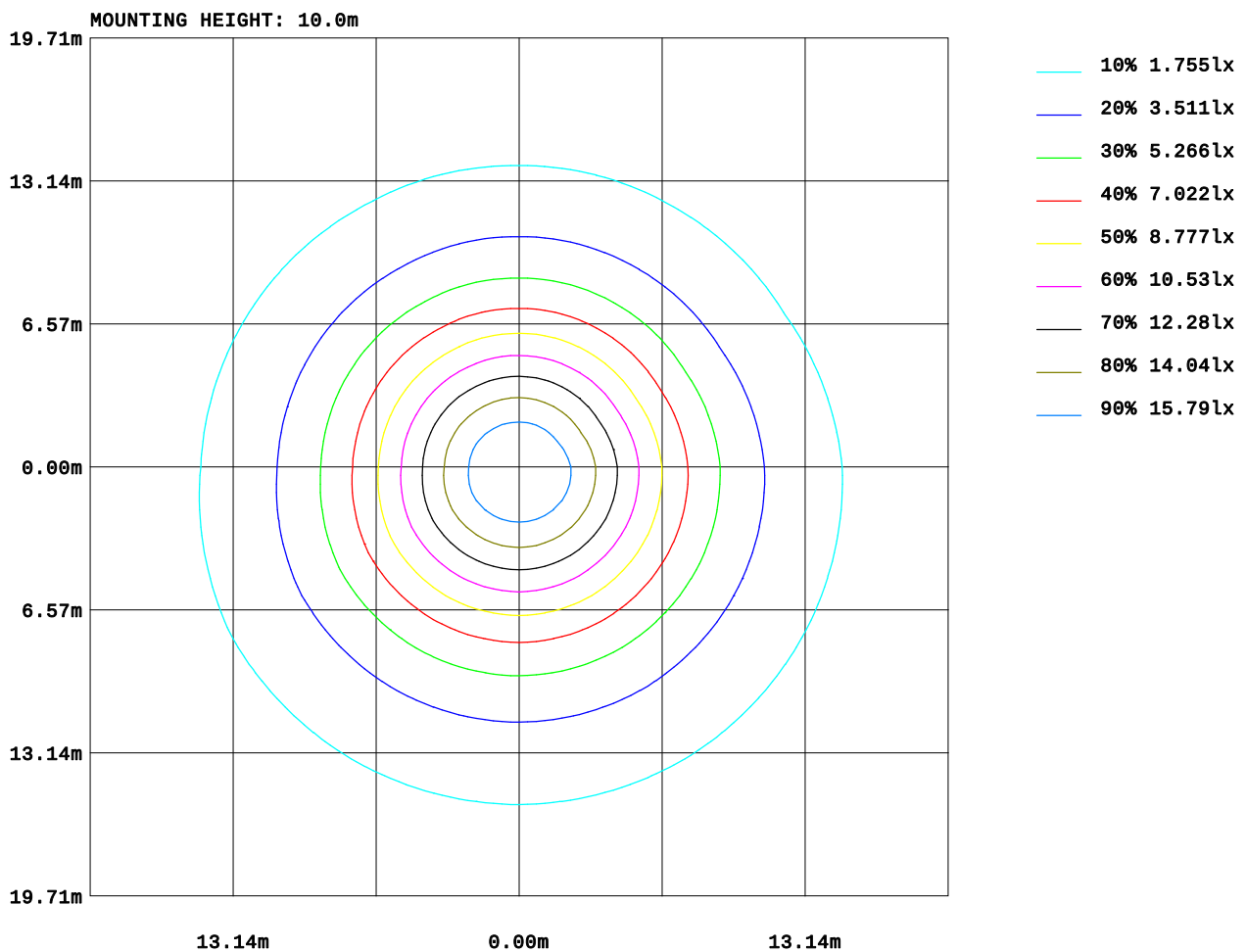
Test System: HOP00 HPG1800
Temperature: 25.3DEG
Operators: RD
Test Date: 10-23-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 8.000 m
Remarks: 240mm x 480mm 288LED 5000K

ISOLUX DIAGRAM

Report number: HLRP10231

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825605	TYPE: 2835 CRI95 288LED	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm pcb	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: 240mm x 480mm 288LED 5000K

AREA LUMINOUS FLUX

Report number: HLRP10231

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825605	TYPE: 2835 CRI95 288LED	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm pcb	SERIAL No.: 01

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT: lm		Φ t	Φ a								
	0.07	0.25	0.41	0.54	0.67	0.73	0.79	0.85	0.82	0.82	0.85	0.78	0.67	0.56	0.42	0.39	0.32	0.12	10.0	0.00										
90	0.11	0.50	1.13	2.06	3.16	4.16	5.04	5.72	5.90	5.89	5.70	5.02	4.00	2.83	1.70	1.03	0.57	0.16	54.7	29.3										
80	0.15	0.86	2.32	4.59	7.31	10.1	12.6	14.7	15.7	15.6	14.5	12.4	9.78	6.81	4.05	2.17	0.94	0.20	135	130										
70	0.20	1.27	3.74	7.50	12.0	16.6	20.7	23.9	25.5	25.5	23.7	20.4	16.1	11.3	6.93	3.62	1.39	0.25	221	219										
60	0.24	1.72	5.18	10.3	16.4	22.6	27.8	31.8	33.8	33.8	31.6	27.4	21.9	15.7	9.84	5.15	1.88	0.30	298	297										
50	0.28	2.15	6.48	12.8	20.2	27.4	33.7	38.2	40.7	40.6	38.0	33.2	26.7	19.4	12.5	6.57	2.35	0.35	362	362										
40	0.32	2.51	7.56	14.8	23.1	31.3	38.3	43.3	46.0	45.9	43.0	37.7	30.5	22.7	14.8	7.80	2.77	0.40	413	413										
30	0.35	2.79	8.36	16.3	25.2	34.0	41.6	47.0	49.8	49.7	46.6	41.0	33.7	25.2	16.5	8.75	3.11	0.44	451	450										
20	0.36	2.96	8.84	17.1	26.4	35.6	43.4	49.2	52.1	52.0	49.0	43.5	35.9	26.9	17.6	9.40	3.34	0.46	475	474										
10	0.37	3.04	9.07	17.5	27.0	36.3	44.2	50.0	52.9	53.0	50.1	44.5	36.7	27.5	18.1	9.64	3.43	0.47	484	484										
0	0.37	3.04	9.05	17.5	26.9	36.2	44.0	49.5	52.2	52.2	49.4	43.8	36.1	27.0	17.7	9.45	3.36	0.46	479	479										
-10	0.36	2.91	8.70	16.8	26.0	34.9	42.2	47.4	50.1	50.1	47.3	41.9	34.5	25.8	16.8	8.94	3.17	0.44	459	459										
-20	0.34	2.67	8.01	15.6	24.2	32.2	39.1	44.0	46.6	46.5	43.9	38.8	31.8	23.7	15.4	8.10	2.87	0.41	425	424										
-30	0.31	2.34	7.03	13.9	21.4	28.5	34.7	39.1	41.4	41.4	39.0	34.4	28.0	20.8	13.4	6.98	2.48	0.36	376	376										
-40	0.26	1.93	5.79	11.5	17.7	23.7	29.0	32.8	34.8	34.7	32.6	28.7	23.3	17.1	10.9	5.64	2.02	0.31	313	313										
-50	0.22	1.49	4.38	8.63	13.1	17.8	21.9	24.8	26.3	26.2	24.6	21.6	17.4	12.5	8.02	4.17	1.52	0.26	235	234										
-60	0.18	1.05	2.90	5.57	8.39	11.2	13.5	14.9	15.5	15.4	14.8	13.3	10.8	7.92	5.06	2.67	1.05	0.21	145	142										
-70	0.13	0.68	1.67	2.84	4.00	5.19	6.10	6.55	6.68	6.64	6.46	5.95	4.93	3.62	2.39	1.39	0.64	0.16	66.0	45.6										
-80																														
-90																														
HORIZONTAL (DEG)																					20	30	40	50	60	70	80	90		
Φ t	4.63	34.2	101	196	304	409	499	564	598	597	562	495	403	298	193	102	37.2	5.76	5508											
Φ a	0.83	29.2	96.3	192	300	405	496	561	594	593	558	492	400	294	188	97.4	32.6	1.98		5319										

Test System:H0P00 HPG1800
Temperature:25.3DEG
Operators:RD
Test Date:10-23-2020

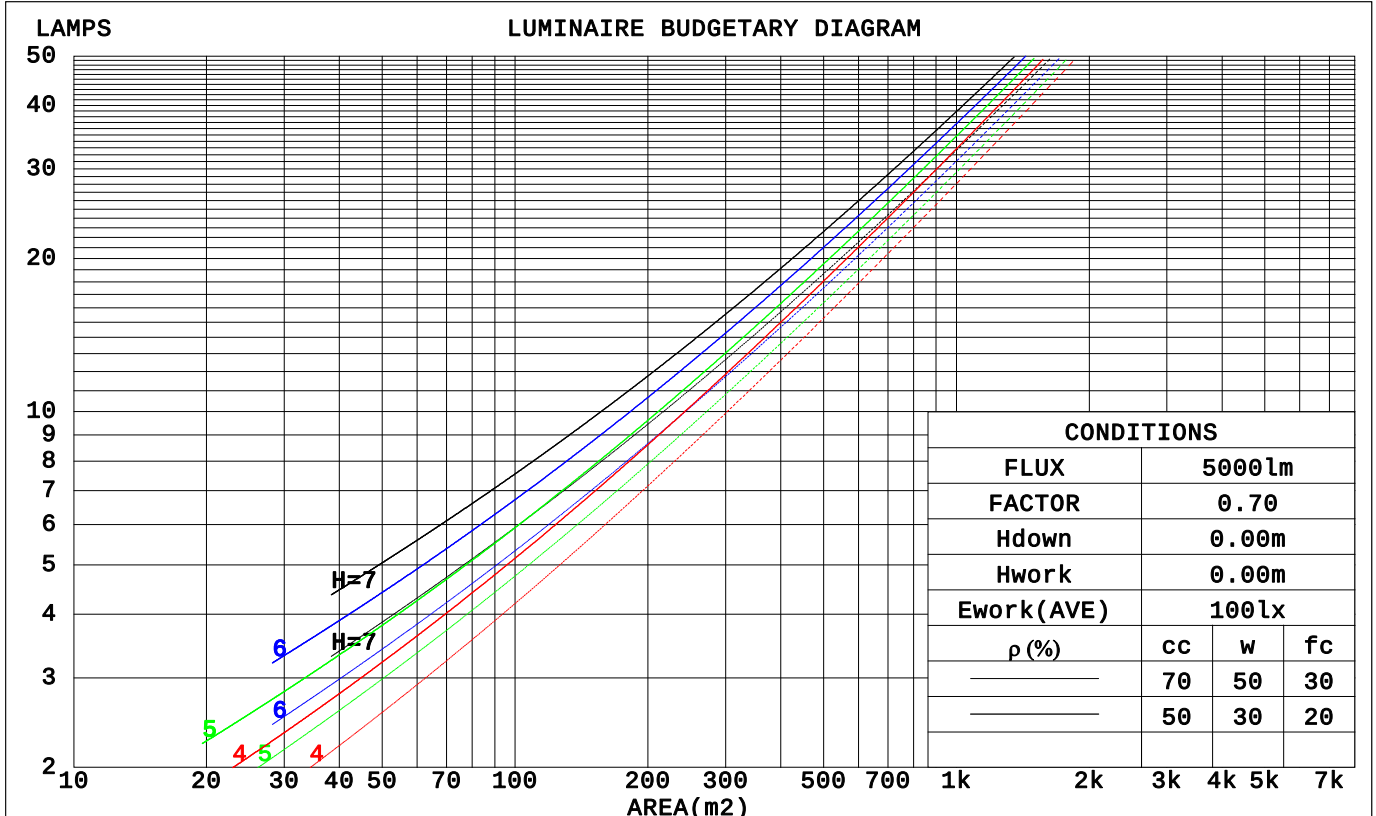
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: 240mm x 480mm 288LED 5000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number: HLRP10231

MANUFACTURER: HAVIT COMMERCIAL																
Address:																
NAME: HCP-3825605									TYPE: 2835 CRI95 288LED				WEIGHT:			
SPECIFICATION: 5000K									DIMENSION: 240mm x 480mm pcb				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															



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: 240mm x 480mm 288LED 5000K

WEC AND CCEC

Report number: HLRP10231

MANUFACTURER: HAVIT COMMERCIAL														
Address:														
NAME: HCP-3825605							TYPE: 2835 CRI95 288LED					WEIGHT:		
SPECIFICATION: 5000K							DIMENSION: 240mm x 480mm pcb					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	.322	.183	.058	.314	.179	.057	.299	.172	.055	.286	.165	.053	.274	.159	.051		
2.0	.299	.164	.050	.293	.161	.050	.280	.156	.048	.268	.150	.047	.257	.146	.046		
3.0	.276	.147	.044	.270	.144	.043	.258	.140	.043	.248	.136	.042	.238	.132	.041		
4.0	.254	.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	.217	.109	.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	.161	.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	.142	.091	.053	.098	.064	.037	.056	.037	.022	.018	.012	.007	
6.0	.158	.097	.053	.136	.084	.046	.093	.059	.033	.054	.035	.019	.018	.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: 240mm x 480mm 288LED 5000K

Uncorrected UGR Table

Report number: HLRP10231

MANUFACTURER: HAVIT COMMERCIAL										
Address:										
NAME: HCP-3825605					TYPE: 2835 CRI95 288LED			WEIGHT:		
SPECIFICATION: 5000K					DIMENSION: 240mm x 480mm pcb			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	22.8	24.3	23.1	24.6	24.8	23.4	24.9	23.7	25.1	25.4
3H	24.5	25.9	24.8	26.1	26.4	25.2	26.6	25.5	26.8	27.1
4H	25.1	26.5	25.5	26.7	27.0	25.9	27.2	26.2	27.5	27.8
6H	25.6	26.9	26.0	27.2	27.5	26.5	27.8	26.9	28.1	28.4
8H	25.7	26.9	26.1	27.3	27.6	26.8	28.0	27.1	28.3	28.6
12H	25.8	27.0	26.2	27.3	27.7	27.0	28.2	27.4	28.5	28.9
4H 2H	23.6	25.0	24.0	25.2	25.5	24.0	25.4	24.4	25.6	25.9
3H	25.5	26.6	25.8	27.0	27.3	26.0	27.2	26.4	27.5	27.9
4H	26.3	27.3	26.7	27.7	28.1	26.9	28.0	27.3	28.3	28.7
6H	26.9	27.8	27.3	28.2	28.6	27.7	28.7	28.1	29.0	29.4
8H	27.1	27.9	27.5	28.3	28.8	28.0	28.9	28.5	29.3	29.7
12H	27.2	28.0	27.7	28.5	28.9	28.4	29.2	28.8	29.6	30.0
8H 4H	26.7	27.6	27.1	28.0	28.4	27.3	28.1	27.7	28.5	29.0
6H	27.5	28.2	28.0	28.7	29.1	28.3	29.0	28.7	29.4	29.9
8H	27.8	28.4	28.3	28.9	29.4	28.7	29.4	29.2	29.8	30.3
12H	28.0	28.6	28.5	29.1	29.6	29.2	29.8	29.7	30.2	30.8
12H 4H	26.7	27.6	27.2	28.0	28.4	27.3	28.1	27.7	28.5	29.0
6H	27.6	28.3	28.1	28.7	29.2	28.3	29.0	28.8	29.5	29.9
8H	28.0	28.5	28.5	29.0	29.5	28.9	29.4	29.4	29.9	30.4
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 5508 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.9)

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: 240mm x 480mm 288LED 5000K

UTILIZATION FACTORS TABLE

Report number: HLRP10231

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825605	TYPE: 2835 CRI95 288LED	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm pcb	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	36	30
0.80	66	54	46	65	53	46	63	52	46	38
1.00	74	63	55	73	62	55	70	63	54	47
1.25	81	70	63	80	70	63	77	68	62	54
1.50	86	76	69	85	75	68	81	73	67	59
2.00	93	85	78	91	83	77	88	81	75	67
2.50	97	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	96	93	83
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

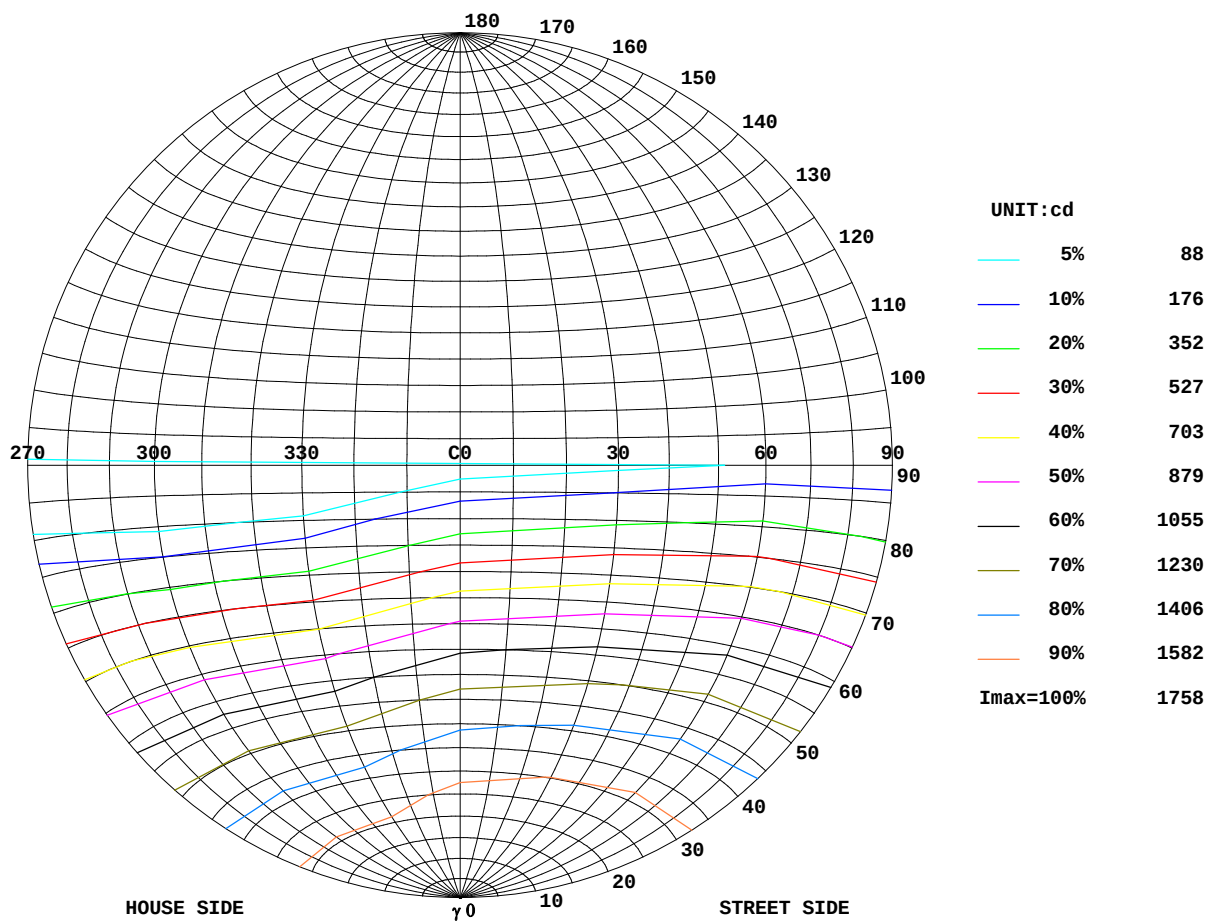
Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:RD
Test Date:10-23-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: 240mm x 480mm 288LED 5000K

ISOCANDELA DIAGRAM

Report number: HLRP10231

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825605	TYPE: 2835 CRI95 288LED	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm pcb	SERIAL No.: 01



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

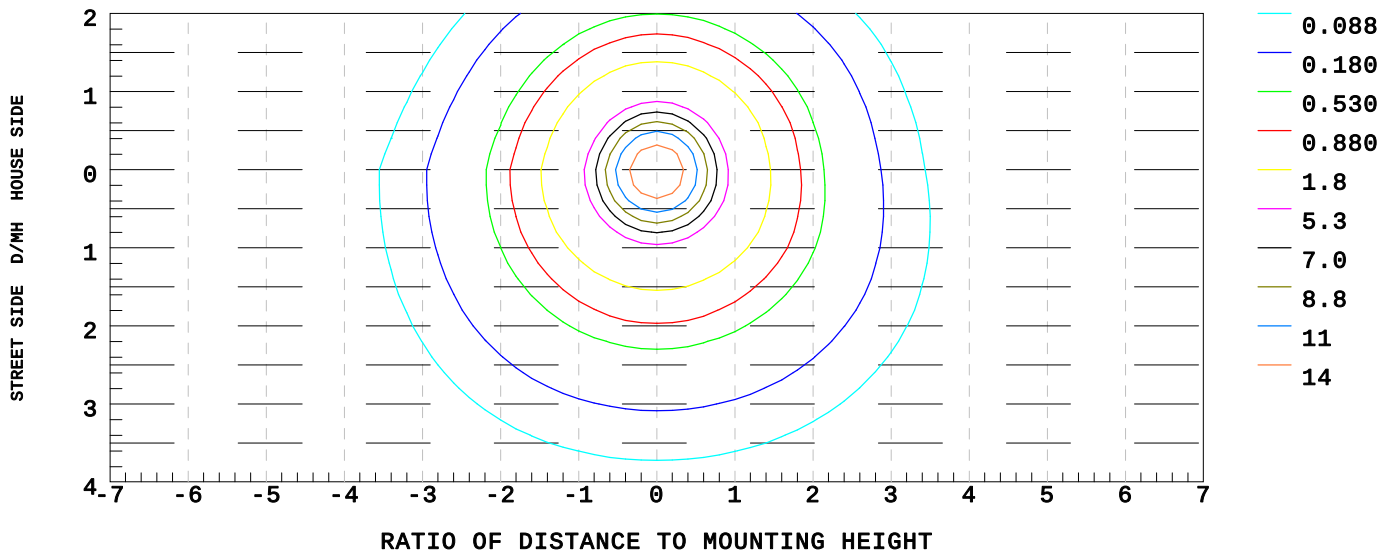
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 8.000 m
Remarks: 240mm x 480mm 288LED 5000K

ISOLUX DIAGRAM

Report number: HLRP10231

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825605	TYPE: 2835 CRI95 288LED	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm pcb	SERIAL No.: 01

ILLUMINANCE AT MH=10 m, Enadir = 17.56 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%

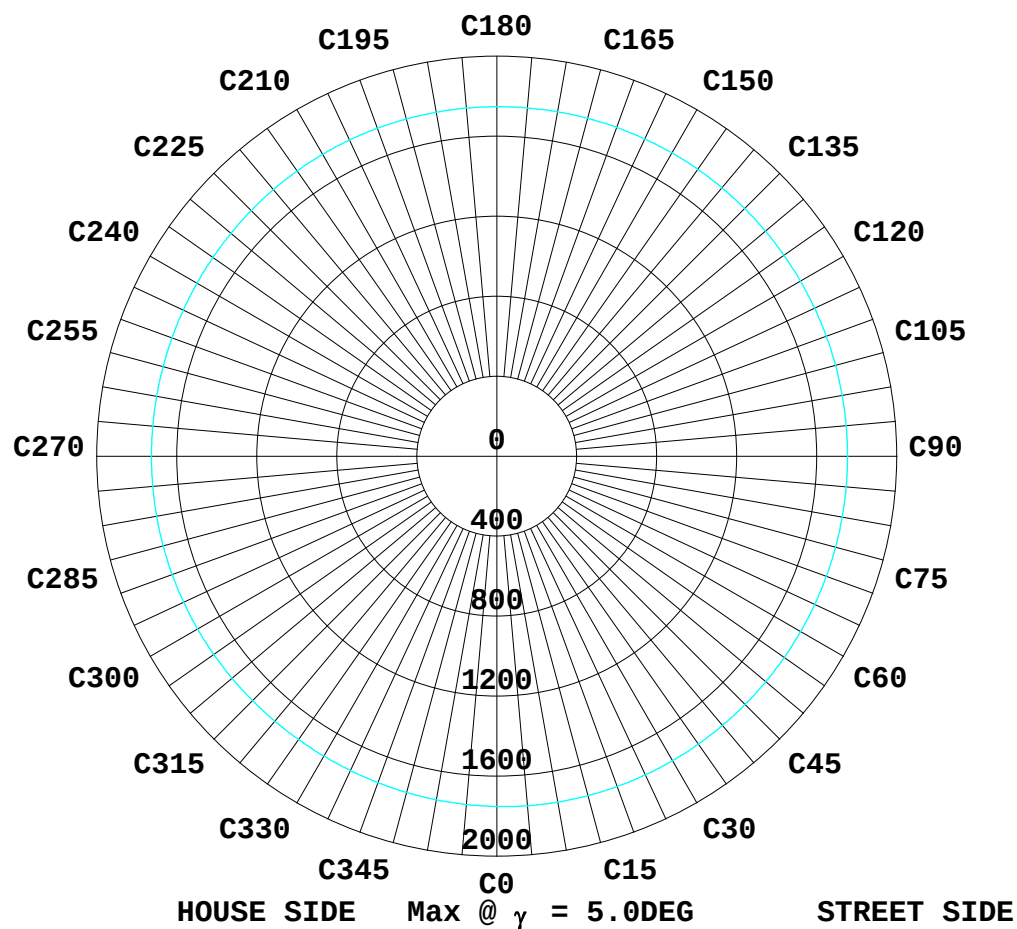
Test Distance: 8.000 m

Remarks: 240mm x 480mm 288LED 5000K

ISOCANDELA DIAGRAM

Report number: HLRP10231

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825605	TYPE: 2835 CRI95 288LED	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm pcb	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: 240mm x 480mm 288LED 5000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: HLRP10231

MANUFACTURER: HAVIT COMMERCIAL		
Address:		
NAME: HCP-3825605	TYPE: 2835 CRI95 288LED	WEIGHT:
SPECIFICATION: 5000K	DIMENSION: 240mm x 480mm pcb	SERIAL No.: 01

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0.0	1756	1757	1748	1746	1747	1747	1756	1757	1748	1746	1747	1747
5.0	1751	1758	1754	1754	1753	1752	1748	1744	1732	1727	1728	1731
10.0	1735	1747	1748	1750	1748	1745	1729	1719	1702	1696	1698	1704
15.0	1707	1725	1731	1734	1732	1725	1697	1682	1660	1652	1655	1663
20.0	1666	1690	1701	1706	1703	1693	1653	1631	1605	1595	1599	1610
25.0	1614	1644	1659	1666	1663	1650	1598	1570	1538	1527	1532	1546
30.0	1549	1584	1605	1613	1609	1594	1529	1495	1458	1445	1451	1468
35.0	1473	1511	1537	1548	1544	1525	1446	1407	1365	1350	1356	1377
40.0	1382	1428	1459	1471	1465	1446	1354	1308	1261	1243	1252	1275
45.0	1278	1329	1366	1379	1373	1351	1246	1193	1142	1124	1132	1159
50.0	1163	1218	1263	1275	1270	1243	1125	1067	1010	991	999	1029
55.0	1034	1096	1143	1160	1153	1126	995	931	870	850	858	891
60.0	892	959	1012	1030	1022	992	849	780	711	694	699	739
65.0	743	814	871	882	881	850	689	617	547	520	537	576
70.0	580	651	706	692	720	690	526	452	378	337	373	416
75.0	416	486	530	501	537	525	362	295	216	177	216	257
80.0	262	325	379	344	385	362	210	153	101	70.7	102	123
85.0	129	177	226	213	233	203	101	50.3	18.2	12.3	17.3	38.7
90.0	43.3	66.8	96.5	101	102	101	19.9	11.6	6.59	7.55	6.52	8.51
95.0	9.92	15.9	21.8	17.2	24.5	20.9	6.84	8.51	7.61	8.44	7.68	8.57
100.0	9.47	7.74	8.38	6.78	8.51	7.55	7.87	9.28	8.76	9.47	8.89	9.53
105.0	10.4	8.89	9.15	8.00	9.21	8.64	9.08	10.3	9.98	10.6	10.1	10.6
110.0	11.5	10.1	10.1	9.21	10.1	9.85	10.3	11.3	11.2	11.9	11.3	11.7
115.0	12.6	11.3	11.1	10.4	11.2	11.0	11.5	12.5	12.5	13.1	12.7	12.9
120.0	13.8	12.6	12.3	11.8	12.3	12.2	12.9	13.8	13.8	14.4	14.0	14.2
125.0	15.1	13.9	13.5	13.1	13.5	13.5	14.2	15.1	15.2	15.5	15.3	15.4
130.0	16.3	15.2	14.8	14.4	14.7	14.9	15.6	16.3	16.4	16.7	16.6	16.7
135.0	17.6	16.5	16.1	15.8	16.0	16.2	16.8	17.5	17.6	17.9	17.9	17.8
140.0	18.7	17.7	17.4	17.0	17.2	17.4	18.0	18.6	18.6	19.0	19.0	18.8
145.0	19.7	18.9	18.6	18.3	18.3	18.6	19.0	19.6	19.6	20.0	20.0	19.8
150.0	20.6	19.9	19.7	19.4	19.3	19.7	20.0	20.4	20.5	20.9	20.8	20.7
155.0	21.3	20.7	20.6	20.4	20.2	20.6	20.8	21.3	21.3	21.6	21.5	21.4
160.0	22.0	21.5	21.4	21.2	21.1	21.3	21.6	22.0	22.0	22.4	22.2	22.1
165.0	22.7	22.2	22.0	22.0	21.8	22.0	22.4	22.5	22.5	23.0	22.7	22.6
170.0	23.2	22.7	22.7	22.7	22.4	22.5	23.0	23.0	23.1	23.4	23.1	22.9
175.0	23.5	23.0	23.1	23.2	23.0	22.9	23.4	23.2	23.3	23.6	23.2	23.2
180.0	23.6	23.2	23.4	23.6	23.2	23.2	23.6	23.2	23.3	23.6	23.2	23.2

Test System:HOP00 HPG1800
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