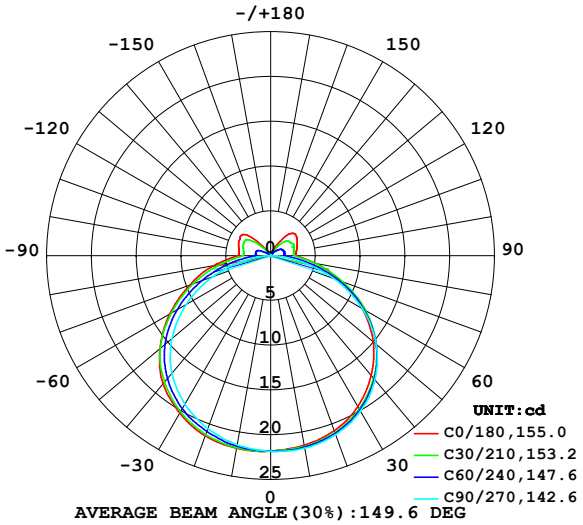
LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: HCP-3466251-B	TYPE: 2835 B	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

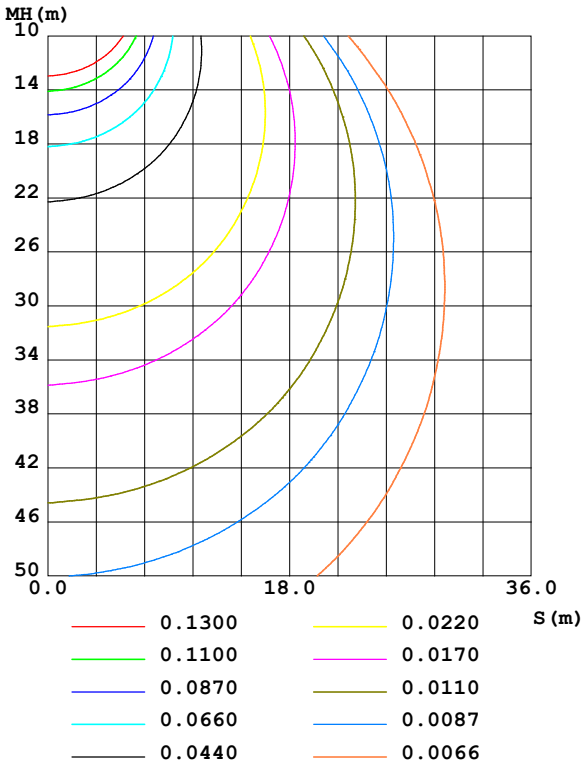
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 16.30 lm/W	
MODEL	HCP-3466251	Imax(cd)	21.98	S/MH(C0/180)	1.38
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	84.647	η UP,DN(C0-180)	5.8,44.9
NOMINAL FLUX(lm)	84.6474	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	5.2,44.0
LAMPS INSIDE	1	η up(%)	11.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	η down(%)	89.0	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(30%):149.6 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	21.49	21.67	21.82	21.95	21.85	21.69	21.46	21.37	0- 10	2.076	2.076	2.45,2.45
20	20.79	21.07	21.26	21.58	21.40	21.07	20.54	20.58	10- 20	6.057	8.133	9.61,9.61
30	19.47	19.84	20.05	20.57	20.31	19.94	19.15	19.27	20- 30	9.473	17.61	20.8,20.8
40	17.47	17.94	18.11	18.82	18.68	18.17	17.16	17.38	30- 40	11.90	29.50	34.9,34.9
50	14.96	15.37	15.38	16.35	16.15	15.76	14.37	14.82	40- 50	12.98	42.48	50.2,50.2
60	11.81	12.14	11.84	13.05	13.03	12.42	10.88	11.61	50- 60	12.41	54.89	64.8,64.8
70	8.328	8.326	7.517	9.206	9.613	8.691	6.824	7.913	60- 70	10.19	65.08	76.9,76.9
80	5.133	4.530	2.847	5.433	6.450	5.009	2.678	4.260	70- 80	6.844	71.93	85,85
90	2.896	2.119	0.0665	2.724	3.717	2.430	0.0009	1.874	80- 90	3.386	75.31	89,89
100	2.936	2.099	0	2.631	3.599	2.405	0	1.913	90-100	2.215	77.53	91.6,91.6
110	3.162	2.186	0	2.671	3.818	2.447	0	1.974	100-110	2.214	79.74	94.2,94.2
120	3.448	2.083	0	2.274	3.978	2.091	0	1.679	110-120	2.032	81.77	96.6,96.6
130	3.649	1.756	0	1.368	3.635	1.224	0	1.371	120-130	1.627	83.40	98.5,98.5
140	3.132	1.071	0	0.2613	1.324	0.2384	0	0.6692	130-140	0.9198	84.32	99.6,99.6
150	1.323	0.4180	0	0	0	0.0029	0	0.1240	140-150	0.2692	84.59	99.9,99.9
160	0.2916	0.1122	0	0	0	0	0	0.0015	150-160	0.0518	84.64	100,100
170	0.0409	0.0014	0	0	0	0	0	0	160-170	0.0061	84.65	100,100
180	0	0	0	0	0	0	0	0	170-180	0.0001	84.65	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

0 - 60 DEG Zonal Flux:54.892 %lum: 64.8%
0 - 60 DEG Zonal Flux:54.892 %lum: 64.8%
All measured values may vary less than 35 %
from the average measured value in the 0 to 130 deg. zone: 16.1%
All measured values in the 0 to 130 deg. zone
may vary less than 50% from the average value of itself: 23.7%

C Range: 0 - 360DEG
C Interval: 30.0DEG
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Operators:zhuo
Test Date:2022-05-24

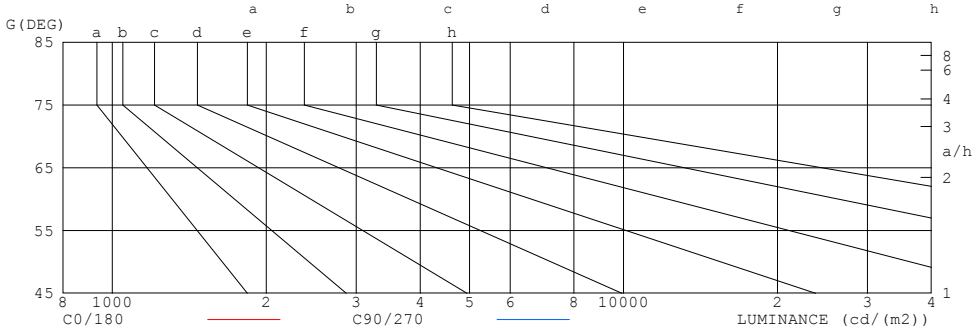
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: HCP-3466251-B	**TYPE: 2835 B**	**WEIGHT:**
SPEC.:	**DIM.: 1*0.012**	**SERIAL No.:**
MFR.: HAVIT COMMERCIAL	**SUR.:**	**Shielding Angle:**

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	423	116
80	296	164
75	259	199
70	244	219
65	237	231
60	236	236
55	235	239
50	233	239
45	230	238

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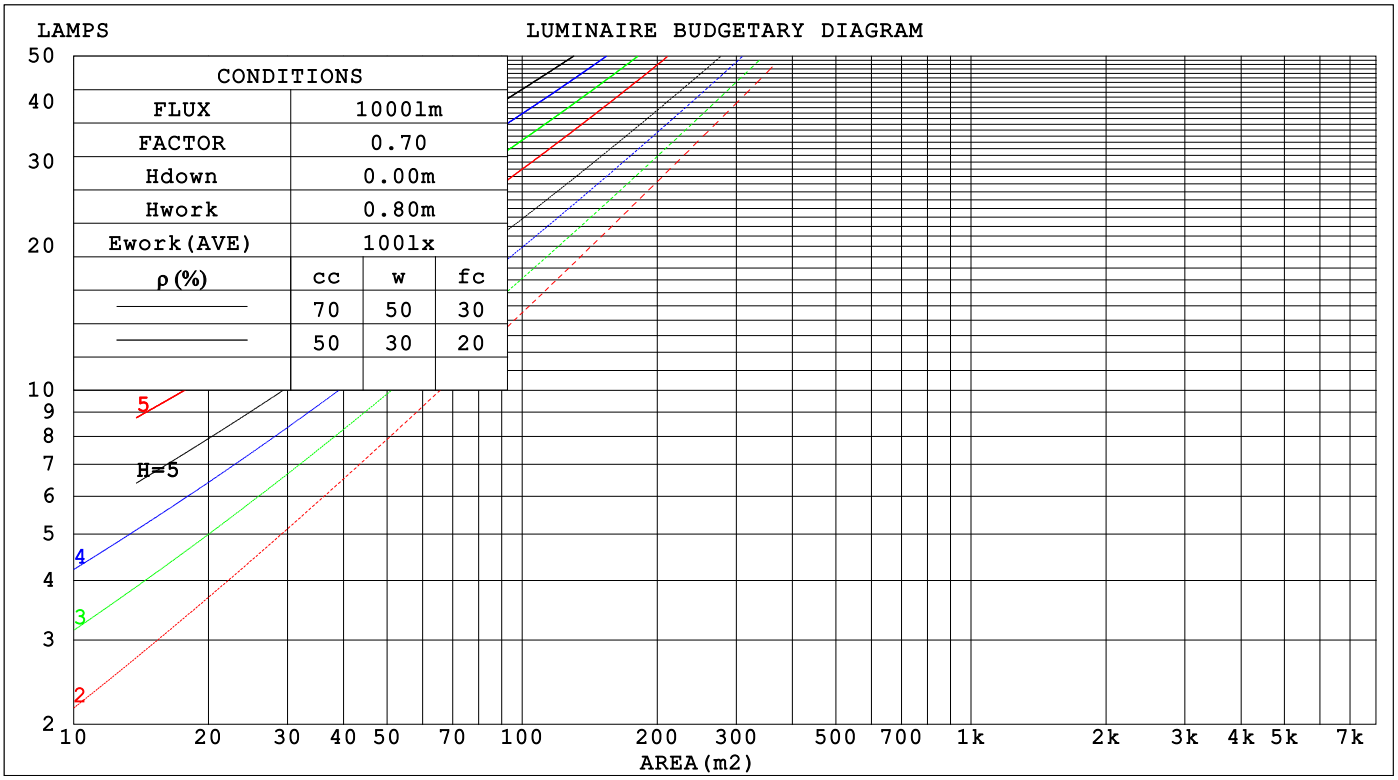
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: HCP-3466251-B	TYPE: 2835 B	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

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	1.05	1.05	1.05	.98	.98	.98	.92	.92	.92	.89
1.0	.00	.95	.90	.96	.92	.88	.90	.86	.83	.84	.81	.79	.79	.76	.74	.72
2.0	.86	.79	.72	.83	.76	.71	.78	.72	.67	.73	.68	.64	.68	.64	.61	.58
3.0	.75	.66	.59	.72	.64	.58	.68	.61	.56	.63	.58	.53	.60	.55	.51	.48
4.0	.66	.57	.50	.64	.55	.49	.60	.53	.47	.56	.50	.45	.53	.48	.43	.41
5.0	.58	.49	.42	.57	.48	.42	.53	.46	.40	.50	.44	.39	.47	.42	.37	.35
6.0	.52	.43	.37	.51	.42	.36	.48	.40	.35	.45	.39	.34	.43	.37	.32	.30
7.0	.47	.38	.32	.46	.38	.32	.43	.36	.31	.41	.34	.30	.39	.33	.29	.26
8.0	.43	.34	.28	.42	.34	.28	.40	.32	.27	.37	.31	.26	.35	.30	.25	.23
9.0	.39	.31	.25	.38	.30	.25	.36	.29	.24	.34	.28	.24	.33	.27	.23	.21
10.0	.36	.28	.23	.35	.28	.23	.33	.27	.22	.32	.26	.21	.30	.25	.21	.19



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: HCP-3466251-B	TYPE: 2835 B	WEIGHT:
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MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

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	.342	.195	.062	.332	.189	.060	.312	.179	.057	.294	.170	.054	.277	.161	.052	
2.0	.311	.170	.052	.301	.166	.051	.283	.158	.049	.267	.150	.047	.252	.143	.045	
3.0	.282	.150	.045	.274	.147	.044	.258	.140	.042	.243	.133	.041	.230	.127	.039	
4.0	.258	.134	.039	.250	.131	.039	.236	.125	.037	.223	.119	.036	.210	.114	.035	
5.0	.236	.121	.035	.230	.118	.034	.217	.113	.033	.205	.108	.032	.193	.103	.031	
6.0	.218	.109	.031	.212	.107	.031	.200	.103	.030	.189	.098	.029	.179	.094	.028	
7.0	.202	.100	.028	.196	.098	.028	.186	.094	.027	.176	.090	.026	.166	.086	.025	
8.0	.188	.092	.026	.183	.090	.025	.173	.087	.025	.164	.083	.024	.155	.080	.023	
9.0	.176	.085	.024	.171	.083	.023	.162	.080	.023	.154	.077	.022	.146	.074	.021	
10.0	.165	.079	.022	.161	.078	.022	.152	.075	.021	.145	.072	.020	.137	.069	.020	

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	.274	.274	.274	.235	.235	.235	.160	.160	.160	.092	.092	.092	.029	.029	.029	
1.0	.267	.241	.217	.229	.206	.186	.156	.142	.129	.090	.082	.075	.029	.026	.024	
2.0	.260	.217	.181	.223	.187	.156	.153	.129	.109	.088	.075	.064	.028	.024	.021	
3.0	.253	.200	.158	.217	.173	.137	.149	.120	.096	.086	.070	.057	.028	.023	.019	
4.0	.245	.187	.143	.210	.162	.124	.145	.113	.088	.084	.066	.052	.027	.022	.017	
5.0	.238	.177	.133	.204	.153	.115	.141	.107	.081	.081	.063	.048	.026	.021	.016	
6.0	.230	.169	.125	.198	.146	.109	.137	.103	.077	.079	.060	.046	.026	.020	.015	
7.0	.224	.162	.120	.192	.141	.104	.133	.099	.074	.077	.058	.044	.025	.019	.015	
8.0	.217	.157	.115	.187	.136	.101	.129	.095	.071	.075	.056	.043	.024	.018	.014	
9.0	.211	.152	.112	.182	.132	.098	.126	.093	.069	.073	.055	.041	.024	.018	.014	
10.0	.205	.148	.110	.177	.128	.096	.123	.090	.068	.072	.053	.041	.023	.018	.013	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: HCP-3466251-B	TYPE: 2835 B	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

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	15.9	17.3	16.3	17.7	18.2	15.9	17.3	16.3	17.7	18.1
3H	17.7	19.1	18.2	19.5	19.9	17.5	18.8	18.0	19.3	19.7
4H	18.6	19.9	19.1	20.3	20.8	18.2	19.4	18.6	19.9	20.3
6H	19.5	20.6	20.0	21.1	21.6	18.6	19.7	19.0	20.2	20.7
8H	19.9	21.0	20.4	21.5	22.0	18.7	19.8	19.2	20.3	20.8
12H	20.3	21.4	20.8	21.9	22.4	18.7	19.8	19.2	20.3	20.8
4H 2H	16.6	17.8	17.1	18.3	18.8	16.6	17.8	17.0	18.3	18.7
3H	18.6	19.7	19.1	20.2	20.7	18.4	19.5	18.9	20.0	20.5
4H	19.7	20.6	20.2	21.2	21.7	19.2	20.2	19.7	20.7	21.2
6H	20.7	21.6	21.2	22.1	22.7	19.7	20.6	20.3	21.1	21.7
8H	21.2	22.0	21.7	22.5	23.2	19.9	20.7	20.4	21.2	21.9
12H	21.7	22.5	22.3	23.0	23.7	19.9	20.7	20.5	21.3	21.9
8H 4H	20.0	20.8	20.6	21.4	22.0	19.6	20.4	20.1	20.9	21.6
6H	21.2	21.9	21.8	22.5	23.2	20.3	21.0	20.9	21.6	22.2
8H	21.9	22.5	22.5	23.1	23.8	20.6	21.2	21.2	21.8	22.5
12H	22.6	23.1	23.2	23.8	24.5	20.8	21.3	21.4	21.9	22.6
12H 4H	20.0	20.8	20.6	21.3	22.0	19.6	20.4	20.2	20.9	21.6
6H	21.3	21.9	21.9	22.5	23.2	20.5	21.1	21.1	21.7	22.4
8H	22.1	22.6	22.7	23.2	23.9	20.8	21.3	21.4	22.0	22.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 84.65 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -8.6)
Area: 0.1 m2

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γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: HCP-3466251-B	TYPE: 2835 B	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

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	51	39	32	50	39	32	49	38	32	25
0.80	61	49	41	60	48	41	57	47	40	32
1.00	69	57	49	68	56	49	65	57	48	40
1.25	76	65	57	74	64	56	71	62	55	46
1.50	82	70	63	79	69	62	75	66	60	51
2.00	89	79	72	86	77	70	81	74	68	58
2.50	93	84	77	90	82	76	85	78	73	62
3.00	97	89	82	94	86	80	88	82	77	66
4.00	101	94	89	98	92	87	92	87	83	70
5.00	104	98	93	100	95	91	94	90	86	73
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

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ISOCANDELA DIAGRAM

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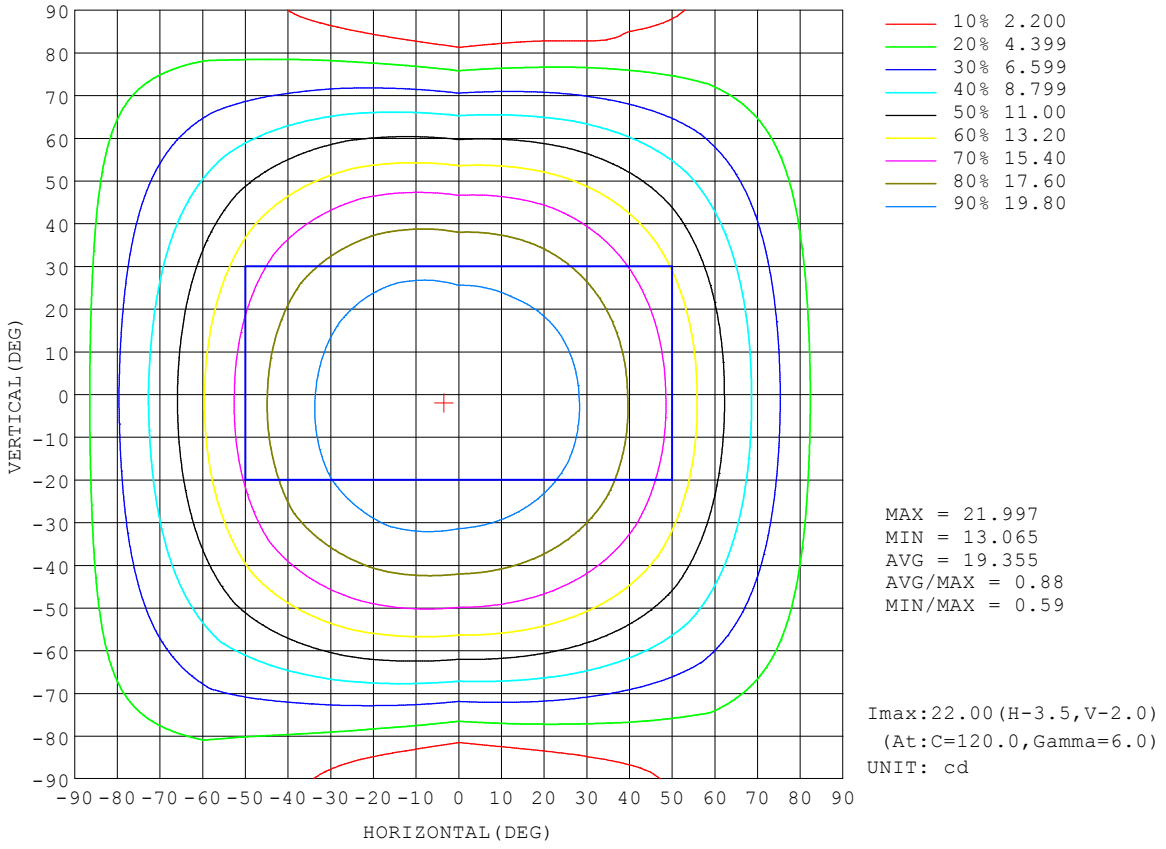

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AAI Figure

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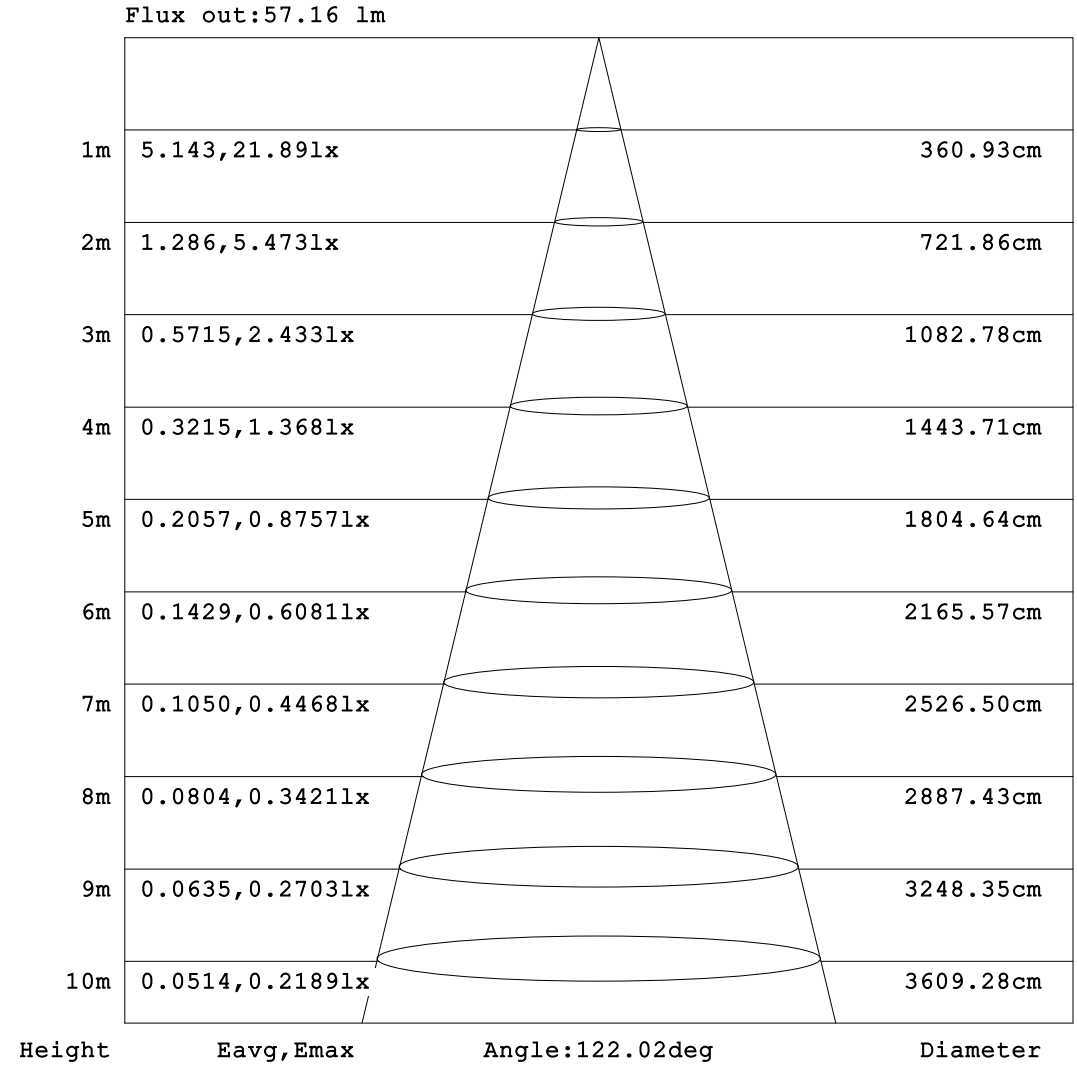

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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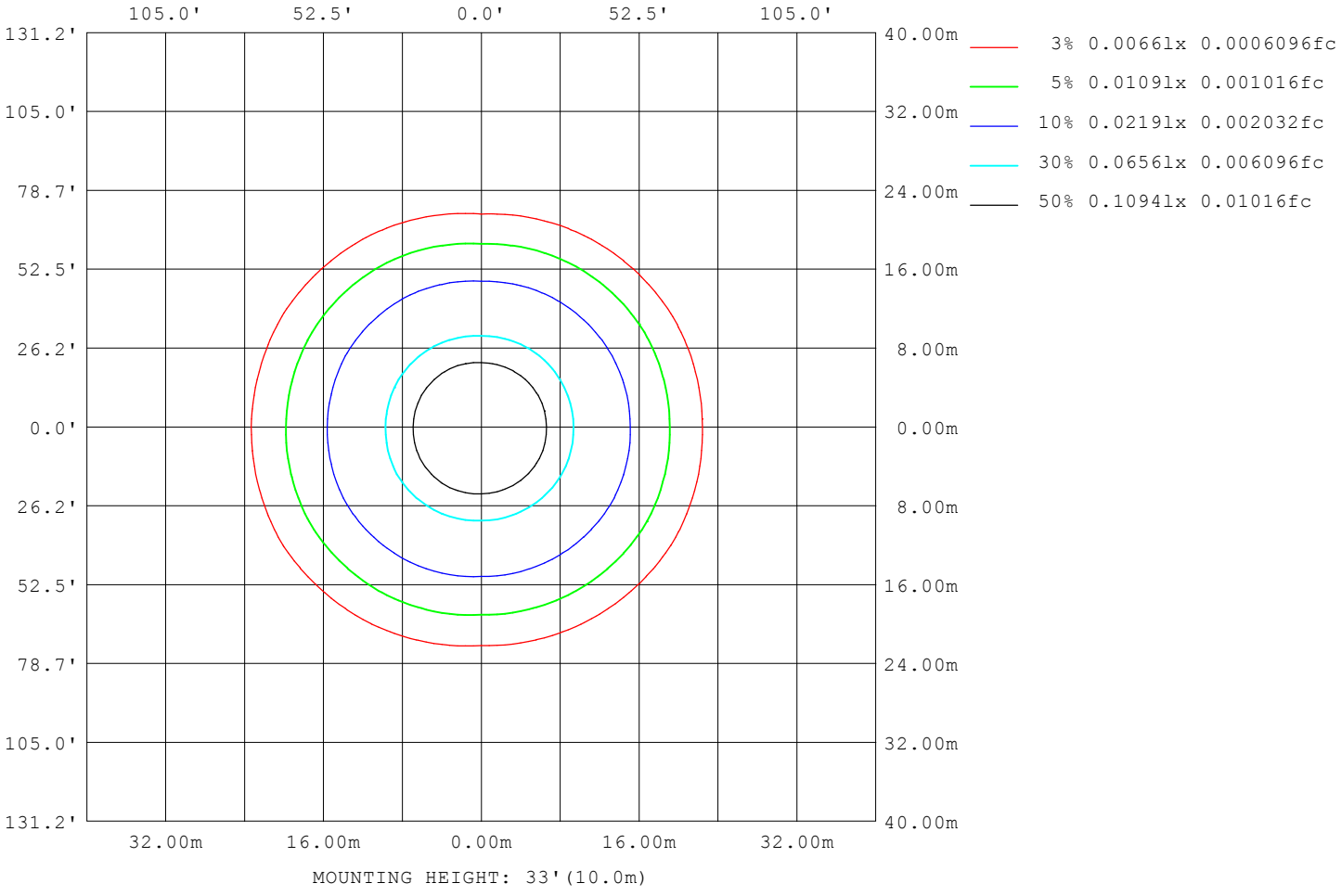

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Operators:zhuo
Test Date:2022-05-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: HCP-3466251-B	TYPE: 2835 B	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

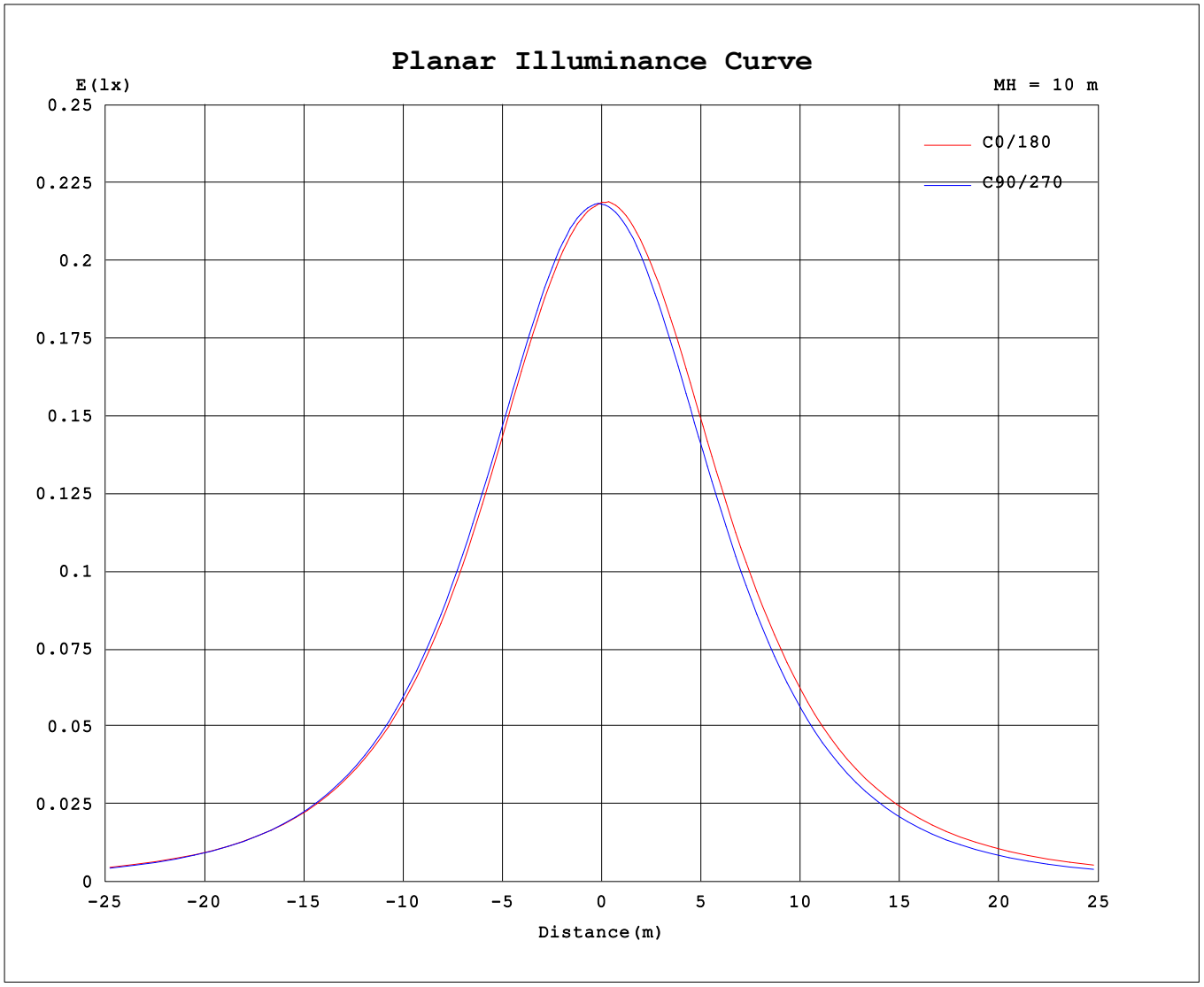
AvgL	cd/m2
L_0~180(65)av	252
L_0~180(75)av	286
L_0~180(85)av	486
L_90~270(65)av	221
L_90~270(75)av	191
L_90~270(85)av	113
L_45(65)av	249
L_45(75)av	258
L_45(85)av	368

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: HCP-3466251-B	TYPE: 2835 B	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8							
5	21.7	21.7	21.8	21.9	22.0	22.0	21.9	21.9	21.8	21.7	21.6	21.6							
10	21.5	21.6	21.7	21.8	22.0	21.9	21.8	21.8	21.6	21.5	21.3	21.4							
15	21.2	21.4	21.5	21.6	21.9	21.8	21.7	21.6	21.3	21.0	21.0	21.1							
20	20.8	21.0	21.1	21.3	21.6	21.6	21.4	21.2	20.9	20.5	20.5	20.6							
25	20.2	20.5	20.6	20.7	21.1	21.2	20.9	20.8	20.4	19.9	19.9	20.1							
30	19.5	19.8	19.9	20.1	20.5	20.6	20.3	20.1	19.7	19.2	19.2	19.4							
35	18.5	18.9	19.0	19.2	19.7	19.8	19.5	19.3	18.9	18.2	18.3	18.4							
40	17.5	17.9	18.0	18.1	18.7	18.9	18.7	18.4	17.9	17.2	17.3	17.4							
45	16.3	16.7	16.8	16.8	17.5	17.9	17.5	17.4	16.8	15.9	16.2	16.2							
50	15.0	15.4	15.4	15.4	16.1	16.6	16.1	16.1	15.4	14.4	14.8	14.9							
55	13.5	13.9	13.8	13.7	14.5	15.0	14.6	14.5	13.8	12.7	13.2	13.4							
60	11.8	12.2	12.0	11.8	12.8	13.3	13.0	12.8	12.0	10.9	11.4	11.8							
65	10.0	10.4	10.1	9.77	10.8	11.5	11.3	11.0	10.1	8.90	9.56	10.0							
70	8.33	8.58	8.07	7.52	8.72	9.69	9.61	9.21	8.18	6.82	7.61	8.22							
75	6.70	6.79	5.96	5.17	6.60	8.02	8.09	7.44	6.16	4.73	5.63	6.41							
80	5.13	5.10	3.96	2.85	4.60	6.26	6.45	5.72	4.29	2.68	3.79	4.73							
85	3.68	3.54	2.32	1.01	2.85	4.54	4.80	4.11	2.67	0.96	1.83	3.26							
90	2.90	2.67	1.56	0.07	2.01	3.44	3.72	3.14	1.72	0.00	1.27	2.48							
95	2.84	2.59	1.52	0.00	1.93	3.30	3.56	3.03	1.70	0.00	1.24	2.45							
100	2.94	2.64	1.56	0.00	1.93	3.33	3.60	3.10	1.71	0.00	1.37	2.45							
105	3.05	2.72	1.57	0.00	1.94	3.41	3.70	3.18	1.71	0.00	1.37	2.49							
110	3.16	2.83	1.54	0.00	1.83	3.51	3.82	3.27	1.62	0.00	1.32	2.63							
115	3.29	2.89	1.49	0.00	1.49	3.62	3.92	3.34	1.33	0.00	1.24	2.40							
120	3.45	2.75	1.42	0.00	0.93	3.61	3.98	3.34	0.84	0.00	1.15	2.20							
125	3.58	2.65	1.22	0.00	0.34	3.43	3.99	3.13	0.32	0.00	0.94	2.29							
130	3.65	2.57	0.94	0.00	0.02	2.71	3.64	2.44	0.01	0.00	0.54	2.20							
135	3.54	2.26	0.67	0.00	0.00	1.60	2.58	1.42	0.00	0.00	0.21	1.93							
140	3.13	1.70	0.44	0.00	0.00	0.52	1.32	0.48	0.00	0.00	0.02	1.31							
145	2.21	1.08	0.29	0.00	0.00	0.02	0.32	0.05	0.00	0.00	0.00	0.64							
150	1.32	0.66	0.17	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.25							
155	0.68	0.37	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04							
160	0.29	0.18	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							
165	0.13	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							
170	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							

C Range: 0 - 360DEG
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