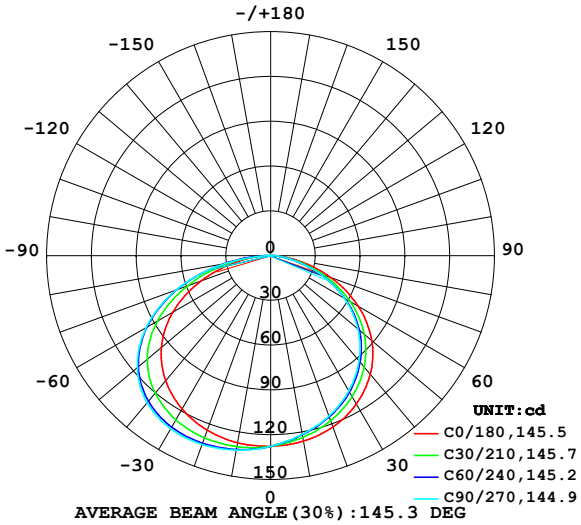
LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: HCP-3426251-1M G	TYPE: 2835 G	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

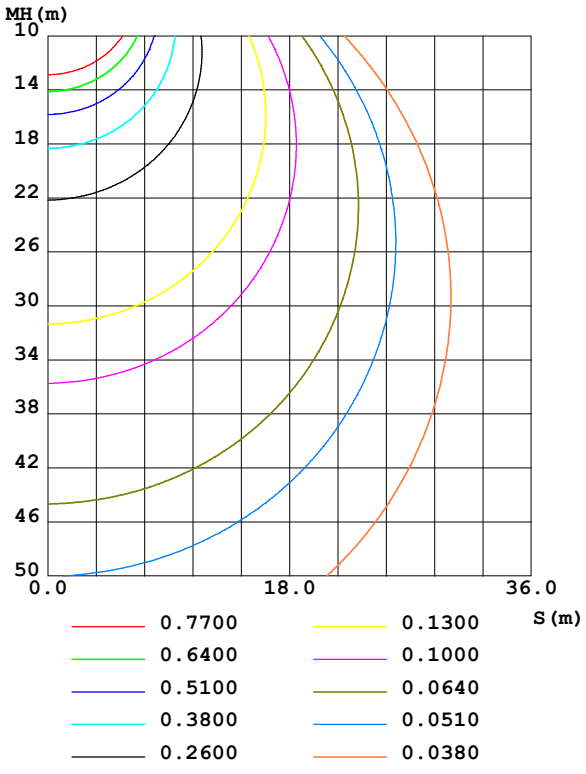
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 22.08 lm/W	
MODEL	HCP-3426251	Imax(cd)	134.7	S/MH(C0/180)	1.38
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.56
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	441.50	η UP,DN(C0-180)	0.1,43.3
NOMINAL FLUX(lm)	441.505	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,56.5
LAMPS INSIDE	1	η up(%)	0.2	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	η down(%)	99.8	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(30%):145.3 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-23

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	126.2	122.8	121.6	123.5	127.3	130.9	132.3	130.1	0- 10	12.15	12.15	2.75,2.75
20	122.2	116.3	114.4	117.7	124.4	131.8	134.6	130.2	10- 20	35.55	47.70	10.8,10.8
30	114.8	107.4	104.7	109.7	118.6	129.8	133.9	127.3	20- 30	56.13	103.8	23.5,23.5
40	103.8	95.33	92.20	98.81	109.4	123.8	128.7	120.3	30- 40	71.57	175.4	39.7,39.7
50	88.49	79.69	76.36	84.25	95.66	111.8	116.6	107.7	40- 50	79.42	254.8	57.7,57.7
60	67.79	59.56	56.88	64.63	75.48	91.52	96.27	87.07	50- 60	76.80	331.6	75.1,75.1
70	42.68	35.85	34.24	40.29	49.47	63.03	67.27	58.77	60- 70	61.91	393.5	89.1,89.1
80	17.23	13.27	12.85	15.89	21.45	29.45	30.65	26.43	70- 80	36.90	430.4	97.5,97.5
90	0.8722	0.7764	0.4716	1.321	1.392	1.021	0.0154	1.125	80- 90	10.32	440.8	99.8,99.8
100	0.0379	0.0539	0.0699	0.0510	0.0379	0.0204	0.0204	0.0306	90-100	0.1489	440.9	99.9,99.9
110	0.0466	0.0787	0.0991	0.0743	0.0613	0.0408	0.0291	0.0481	100-110	0.0526	441.0	99.9,99.9
120	0.0757	0.1137	0.1340	0.1136	0.0991	0.0758	0.0612	0.0787	110-120	0.0773	441.0	99.9,99.9
130	0.1137	0.1399	0.1689	0.1398	0.1311	0.1108	0.0932	0.1143	120-130	0.0978	441.1	99.9,99.9
140	0.1340	0.1693	0.1923	0.1683	0.1632	0.1355	0.1238	0.1384	130-140	0.1086	441.2	99.9,99.9
150	0.1629	0.1865	0.2097	0.1937	0.1894	0.1645	0.1515	0.1663	140-150	0.1036	441.3	100,100
160	0.2040	0.2100	0.2108	0.2119	0.2080	0.1818	0.1660	0.1864	150-160	0.0864	441.4	100,100
170	0.2086	0.2116	0.2119	0.2123	0.2108	0.2113	0.2039	0.2115	160-170	0.0577	441.5	100,100
180	0.2098	0.2142	0.2127	0.2126	0.2127	0.2157	0.2127	0.2126	170-180	0.0202	441.5	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

0 - 60 DEG Zonal Flux:331.62 %lum: 75.1%
0 - 60 DEG Zonal Flux:331.62 %lum: 75.1%
All measured values may vary less than 35 %
from the average measured value in the 0 to 130 deg. zone: 12.6%
All measured values in the 0 to 130 deg. zone
may vary less than 50% from the average value of itself: 18.5%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-23

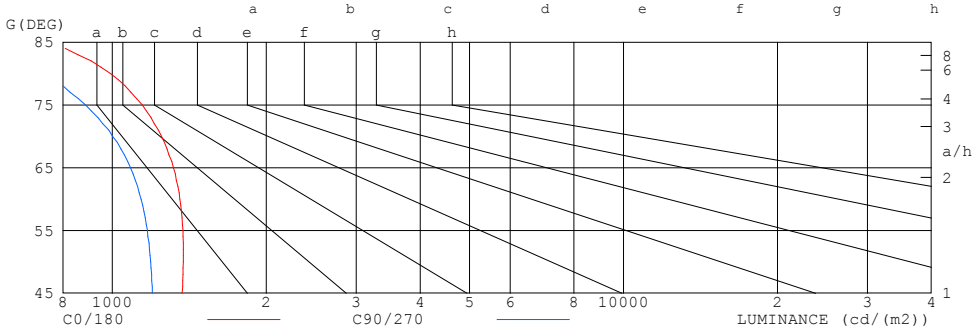
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: HCP-3426251-1M G	**TYPE: 2835 G**	**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	760	655
80	992	740
75	1144	887
70	1248	1001
65	1316	1085
60	1356	1138
55	1375	1171
50	1377	1188
45	1369	1197

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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
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Remarks:

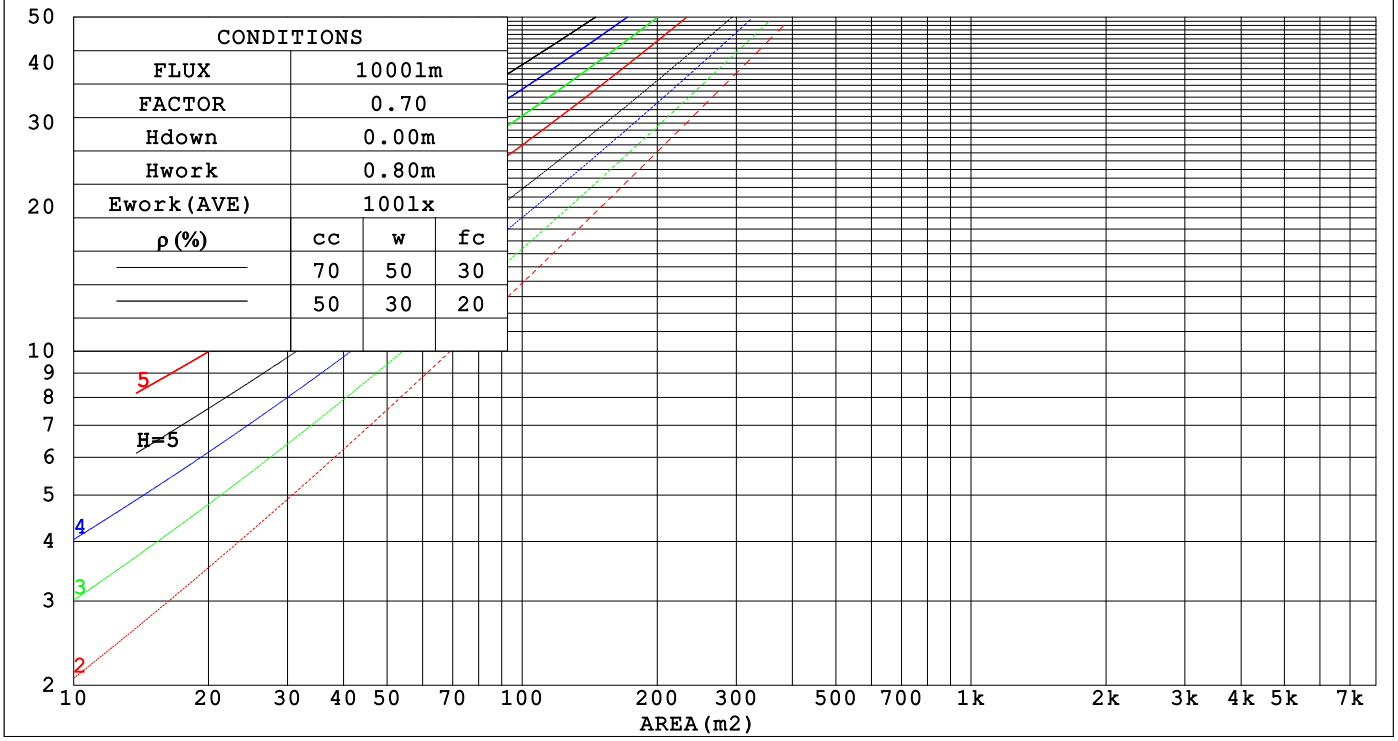
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: HCP-3426251-1M G	TYPE: 2835 G	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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.03	.98	.94	1.01	.96	.93	.96	.93	.90	.92	.89	.87	.89	.86	.84	.82
2.0	.89	.81	.75	.87	.80	.74	.83	.78	.73	.80	.75	.71	.77	.73	.69	.67
3.0	.77	.69	.62	.76	.68	.61	.73	.66	.60	.70	.64	.59	.67	.62	.58	.56
4.0	.68	.59	.52	.67	.58	.51	.64	.56	.51	.62	.55	.50	.59	.54	.49	.47
5.0	.60	.51	.44	.59	.50	.44	.57	.49	.43	.55	.48	.43	.53	.47	.42	.40
6.0	.54	.45	.38	.53	.44	.38	.51	.43	.37	.49	.42	.37	.48	.42	.37	.35
7.0	.49	.40	.33	.48	.39	.33	.46	.39	.33	.45	.38	.33	.43	.37	.32	.30
8.0	.44	.36	.29	.44	.35	.29	.42	.35	.29	.41	.34	.29	.40	.33	.29	.27
9.0	.41	.32	.26	.40	.32	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.24
10.0	.37	.29	.24	.37	.29	.24	.36	.29	.24	.35	.28	.23	.34	.28	.23	.21

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



C Range: 0 - 360DEG
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Temperature:25.3DEG
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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:

WEC AND CCEC

NAME: HCP-3426251-1M G	TYPE: 2835 G	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	.329	.187	.059	.322	.184	.058	.308	.177	.056	.296	.171	.055	.285	.165	.053	
2.0	.308	.169	.052	.301	.166	.051	.289	.161	.050	.278	.156	.049	.268	.152	.048	
3.0	.283	.151	.045	.278	.149	.045	.267	.145	.044	.257	.141	.043	.248	.137	.043	
4.0	.260	.135	.040	.255	.134	.039	.246	.130	.039	.237	.127	.038	.229	.124	.038	
5.0	.239	.122	.035	.235	.121	.035	.227	.118	.035	.219	.116	.034	.212	.113	.034	
6.0	.221	.111	.032	.217	.110	.032	.210	.108	.031	.203	.105	.031	.196	.103	.031	
7.0	.205	.102	.029	.202	.101	.029	.195	.099	.028	.189	.097	.028	.183	.095	.028	
8.0	.191	.093	.026	.188	.093	.026	.182	.091	.026	.177	.089	.026	.171	.088	.026	
9.0	.179	.087	.024	.176	.086	.024	.171	.084	.024	.166	.083	.024	.161	.082	.024	
10.0	.168	.080	.022	.165	.080	.022	.160	.079	.022	.156	.077	.022	.152	.076	.022	

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	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.183	.157	.134	.157	.135	.115	.107	.093	.080	.062	.054	.046	.020	.017	.015	
2.0	.176	.133	.097	.150	.115	.084	.103	.079	.059	.059	.046	.034	.019	.015	.011	
3.0	.168	.116	.074	.144	.100	.064	.099	.069	.045	.057	.040	.026	.018	.013	.009	
4.0	.161	.103	.058	.138	.089	.050	.095	.062	.035	.055	.036	.021	.018	.012	.007	
5.0	.153	.092	.047	.132	.080	.041	.091	.056	.029	.053	.033	.017	.017	.011	.006	
6.0	.146	.084	.039	.126	.073	.034	.087	.051	.024	.050	.030	.014	.016	.010	.005	
7.0	.139	.077	.034	.120	.067	.029	.083	.047	.021	.048	.028	.012	.016	.009	.004	
8.0	.133	.071	.029	.114	.062	.026	.079	.043	.018	.046	.026	.011	.015	.008	.004	
9.0	.126	.066	.026	.109	.058	.023	.075	.041	.016	.044	.024	.010	.014	.008	.003	
10.0	.121	.062	.023	.104	.054	.020	.072	.038	.014	.042	.022	.009	.014	.007	.003	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-23

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-3426251-1M G	TYPE: 2835 G	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	16.4	18.0	16.6	18.2	18.4	15.7	17.3	15.9	17.5	17.7
3H	18.0	19.5	18.3	19.7	19.9	17.1	18.6	17.4	18.8	19.1
4H	18.6	20.0	18.9	20.3	20.5	17.6	19.0	17.9	19.3	19.5
6H	19.0	20.4	19.4	20.6	20.9	17.9	19.3	18.3	19.5	19.8
8H	19.2	20.4	19.5	20.7	21.0	18.0	19.3	18.4	19.6	19.9
12H	19.2	20.4	19.6	20.7	21.1	18.1	19.3	18.4	19.6	19.9
4H 2H	16.9	18.3	17.2	18.5	18.8	16.3	17.7	16.6	18.0	18.2
3H	18.6	19.9	19.0	20.2	20.5	17.9	19.1	18.3	19.4	19.7
4H	19.4	20.5	19.8	20.8	21.2	18.5	19.7	18.9	20.0	20.3
6H	19.9	20.9	20.3	21.3	21.7	18.9	20.0	19.4	20.3	20.7
8H	20.1	21.0	20.5	21.4	21.8	19.1	20.0	19.5	20.4	20.8
12H	20.2	21.0	20.6	21.4	21.8	19.2	20.0	19.6	20.4	20.8
8H 4H	19.5	20.5	20.0	20.9	21.2	18.8	19.7	19.2	20.1	20.5
6H	20.2	21.0	20.7	21.4	21.8	19.3	20.1	19.8	20.5	20.9
8H	20.4	21.1	20.9	21.6	22.0	19.5	20.2	20.0	20.6	21.1
12H	20.6	21.2	21.1	21.7	22.1	19.7	20.3	20.1	20.7	21.2
12H 4H	19.5	20.4	20.0	20.8	21.2	18.8	19.6	19.2	20.0	20.4
6H	20.2	20.9	20.7	21.3	21.8	19.4	20.1	19.8	20.5	20.9
8H	20.5	21.1	21.0	21.5	22.0	19.6	20.2	20.1	20.6	21.1

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 0.1 / - 0.2	+ 0.2 / - 0.2
1.5H	+ 0.1 / - 0.3	+ 0.2 / - 0.4
2.0H	+ 0.2 / - 0.3	+ 0.2 / - 0.4

CIE Pub.117, 441.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.8)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
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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:

UTILIZATION FACTORS TABLE

NAME: HCP-3426251-1M G	TYPE: 2835 G	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	55	43	35	54	42	35	53	42	35	28
0.80	65	53	45	64	52	45	62	51	44	37
1.00	73	62	54	72	61	54	70	63	53	46
1.25	81	70	62	79	69	62	76	67	61	53
1.50	86	75	68	84	74	67	81	73	66	58
2.00	93	84	77	91	83	76	88	81	75	67
2.50	97	89	83	95	88	82	91	85	80	71
3.00	101	94	88	99	92	87	95	89	84	76
4.00	105	99	94	103	97	93	98	94	90	81
5.00	108	103	98	105	101	97	101	97	94	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

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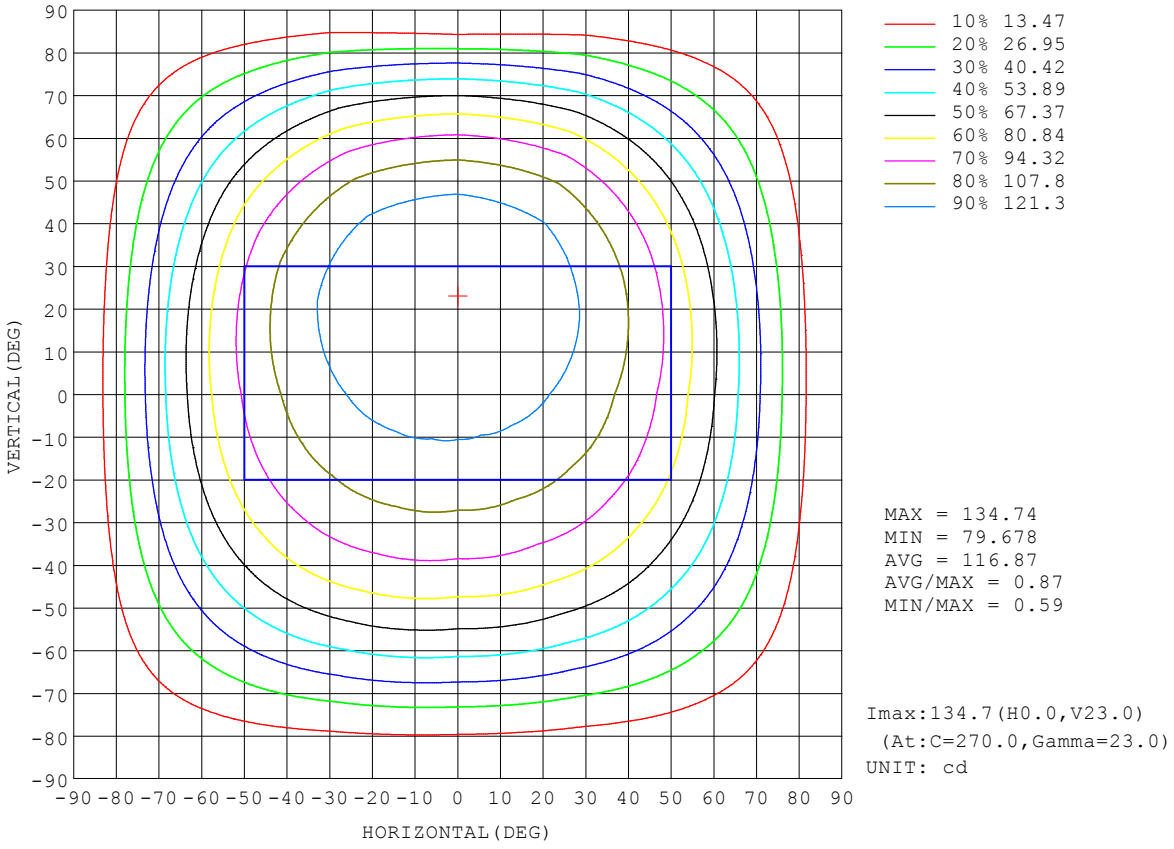
Remarks:

ISOCANDELA DIAGRAM

NAME: HCP-3426251-1M G	TYPE: 2835 G	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:



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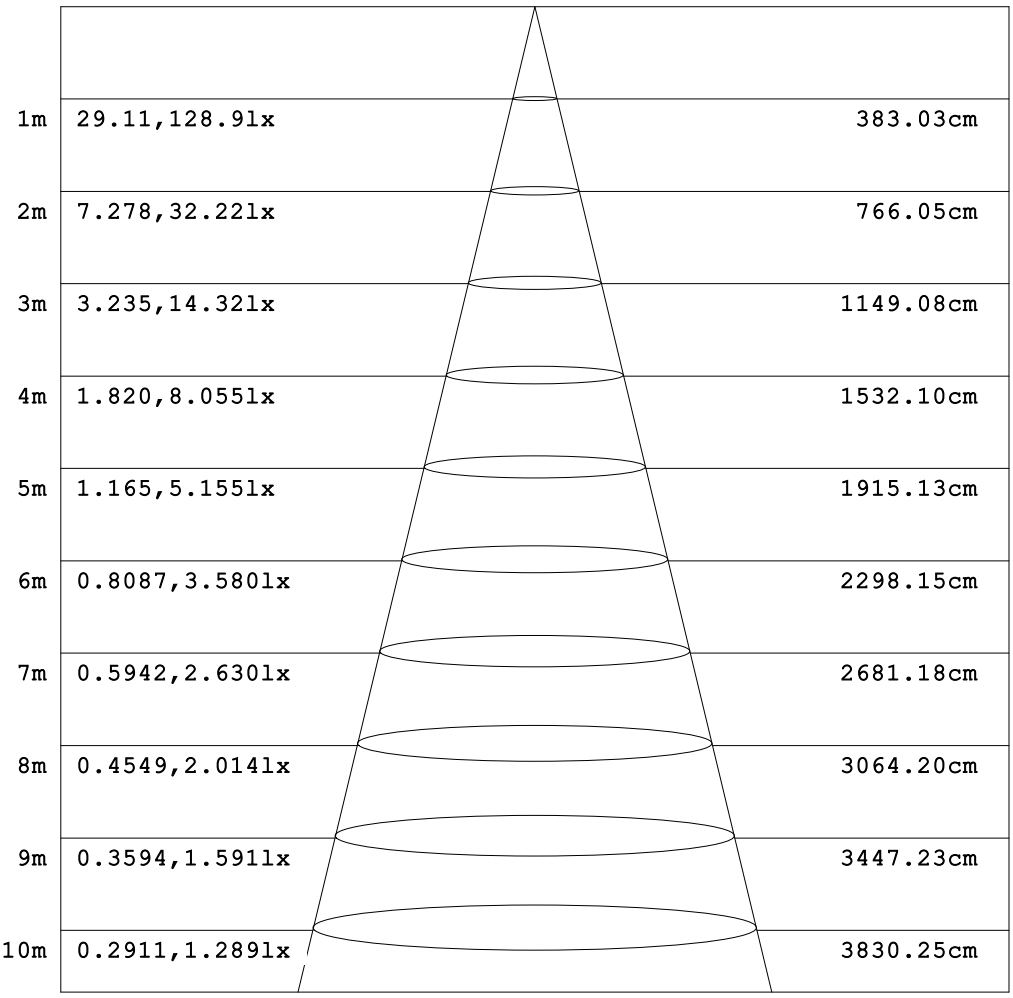
AAI Figure

NAME: HCP-3426251-1M G	TYPE: 2835 G	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

Flux out:352.3 lm



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

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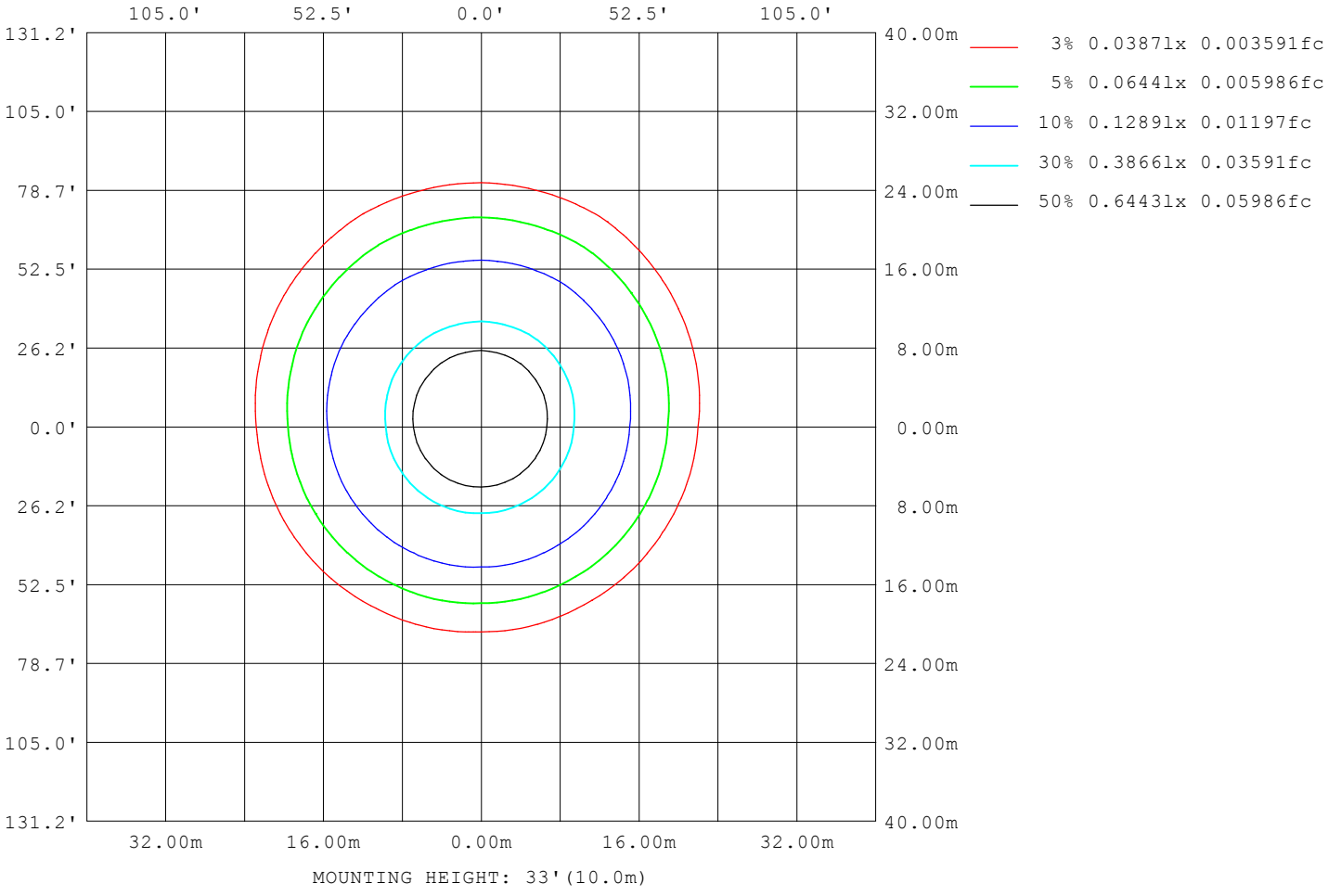
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-23

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-3426251-1M G	TYPE: 2835 G	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

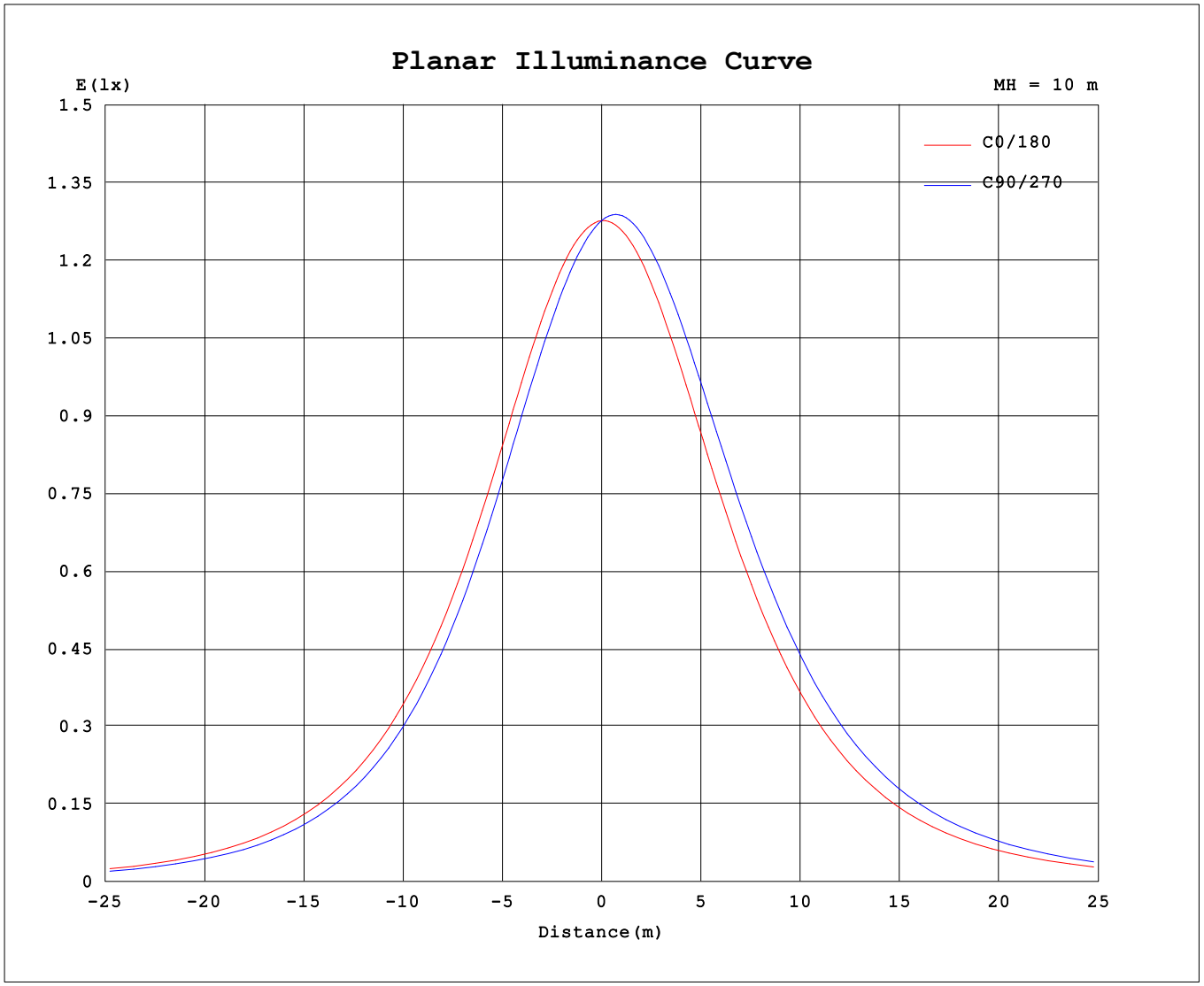
AvgL	cd/m2
L_0~180(65)av	1405
L_0~180(75)av	1253
L_0~180(85)av	909
L_90~270(65)av	1521
L_90~270(75)av	1407
L_90~270(85)av	937
L_45(65)av	1499
L_45(75)av	1365
L_45(85)av	1074

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-23

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
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-23

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-3426251-1M G	TYPE: 2835 G	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	128	128	128	128	128	128	128	128	128	128	128	128							
5	127	126	125	125	125	126	128	129	130	130	130	129							
10	126	124	122	122	122	125	127	130	132	132	131	129							
15	125	121	119	118	119	122	126	130	133	134	132	129							
20	122	118	115	114	116	119	124	130	134	135	133	128							
25	119	114	111	110	112	116	122	129	134	135	132	126							
30	115	109	106	105	108	112	119	127	133	134	131	124							
35	110	104	99.8	98.8	102	107	114	124	131	132	129	120							
40	104	97.4	93.2	92.2	96.0	102	109	120	127	129	125	115							
45	96.8	90.2	85.9	84.6	89.0	95.2	103	115	122	124	120	109							
50	88.5	81.9	77.5	76.4	80.9	87.6	95.7	108	116	117	114	102							
55	78.9	72.3	68.1	67.2	71.7	78.5	86.4	98.9	107	108	105	92.3							
60	67.8	61.6	57.5	56.9	61.3	68.0	75.5	87.5	95.5	96.3	93.3	80.9							
65	55.6	49.8	46.1	45.8	49.7	56.0	63.2	74.2	82.2	82.8	79.8	67.7							
70	42.7	37.4	34.2	34.2	37.4	43.1	49.5	59.2	66.8	67.3	64.3	53.2							
75	29.6	25.3	22.7	23.0	25.3	30.0	35.2	43.4	49.6	49.9	47.3	38.2							
80	17.2	14.2	12.3	12.8	14.2	17.6	21.5	27.2	31.7	30.6	29.7	23.1							
85	6.63	5.66	5.29	5.71	6.05	7.26	9.22	12.1	14.9	10.6	13.2	9.32							
90	0.87	0.82	0.74	0.47	1.20	1.44	1.39	1.11	0.94	0.02	1.19	1.06							
95	0.05	0.05	0.06	0.05	0.05	0.05	0.03	0.02	0.02	0.01	0.02	0.03							
100	0.04	0.06	0.05	0.07	0.05	0.05	0.04	0.02	0.02	0.02	0.03	0.03							
105	0.04	0.07	0.07	0.09	0.06	0.06	0.05	0.02	0.04	0.02	0.05	0.03							
110	0.05	0.09	0.07	0.10	0.06	0.08	0.06	0.03	0.05	0.03	0.06	0.04							
115	0.07	0.10	0.08	0.12	0.09	0.10	0.08	0.04	0.07	0.04	0.07	0.06							
120	0.08	0.12	0.11	0.13	0.11	0.11	0.10	0.06	0.09	0.06	0.09	0.07							
125	0.10	0.13	0.12	0.15	0.12	0.13	0.11	0.07	0.10	0.07	0.10	0.08							
130	0.11	0.15	0.13	0.17	0.13	0.15	0.13	0.11	0.11	0.09	0.12	0.11							
135	0.12	0.16	0.15	0.18	0.16	0.16	0.15	0.11	0.13	0.12	0.14	0.12							
140	0.13	0.18	0.16	0.19	0.16	0.17	0.16	0.13	0.15	0.12	0.15	0.13							
145	0.16	0.19	0.17	0.20	0.17	0.19	0.17	0.14	0.16	0.13	0.16	0.15							
150	0.16	0.20	0.17	0.21	0.19	0.20	0.19	0.16	0.17	0.15	0.18	0.16							
155	0.17	0.21	0.19	0.21	0.20	0.21	0.20	0.16	0.18	0.16	0.18	0.17							
160	0.20	0.21	0.21	0.21	0.22	0.21	0.21	0.17	0.19	0.17	0.20	0.17							
165	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.19	0.20	0.18	0.21	0.21							
170	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.21	0.21							
175	0.21	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.21							
180	0.21	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.21	0.22	0.21							

C Range: 0 - 360DEG
C Interval: 30.0DEG
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