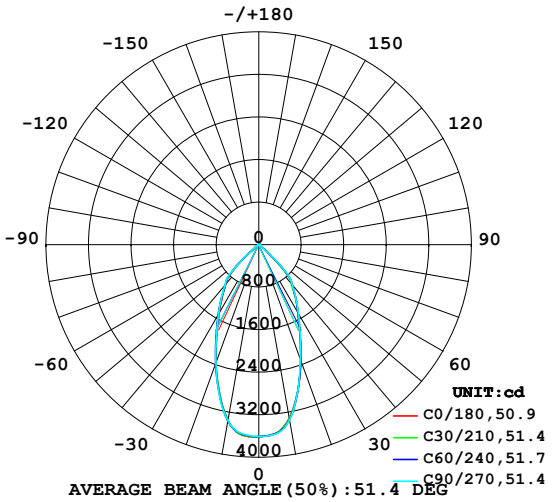
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.43V I:0.1992A P:43.539W PF:0.9961 Freq:49.99Hz Lamp Flux:3300.51x1 lm		
Name: HCP-81322138 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

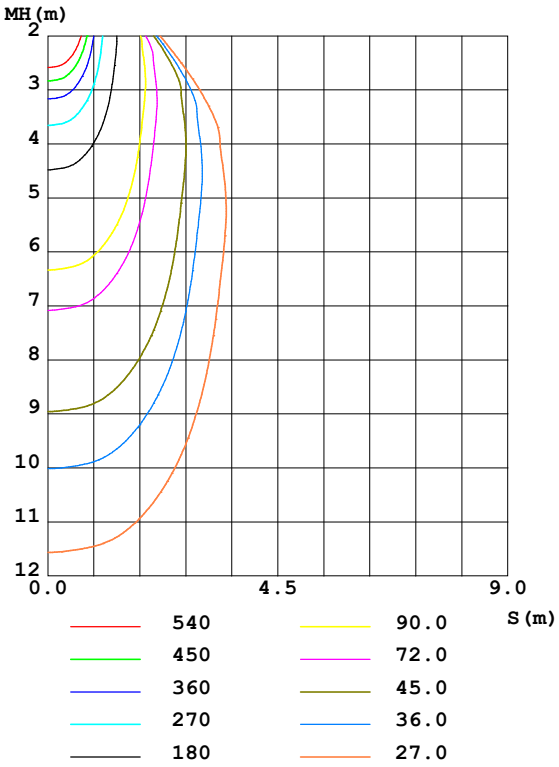
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 75.81 lm/W	
MODEL	HCP-81322138	Imax(cd)	3615	S/MH(C0/180)	0.78
NOMINAL POWER(W)	45	LOR(%)	100.0	S/MH(C90/270)	0.78
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	3300.5	η UP,DN(C0-180)	0.0,49.8
NOMINAL FLUX(lm)	3300.51	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.80

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):51.4 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-03-06

γ Range: 0 - 90DEG
γInterval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [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	3309	3343	3344	3359	3352	3342	3359	3308	0- 10	334.2	334.2	10.1,10.1
20	2311	2326	2295	2360	2358	2346	2371	2311	10- 20	793.9	1128	34.2,34.2
30	1478	1489	1493	1492	1492	1514	1518	1476	20- 30	856.3	1984	60.1,60.1
40	969.8	954.2	983.4	970.0	965.0	973.9	988.7	989.1	30- 40	759.0	2743	83.1,83.1
50	129.0	136.5	133.0	190.4	181.1	142.1	137.6	132.9	40- 50	485.1	3228	97.8,97.8
60	24.30	27.64	25.34	27.49	27.48	27.28	24.20	23.44	50- 60	51.09	3280	99.4,99.4
70	8.650	8.988	7.352	8.686	9.112	9.296	8.005	8.504	60- 70	15.73	3295	99.8,99.8
80	1.681	1.479	1.214	1.505	1.829	1.684	1.439	1.627	70- 80	4.581	3300	100,100
90	0.1607	0.1390	0.1520	0.1259	0.1868	0.1781	0.1781	0.1781	80- 90	0.6523	3301	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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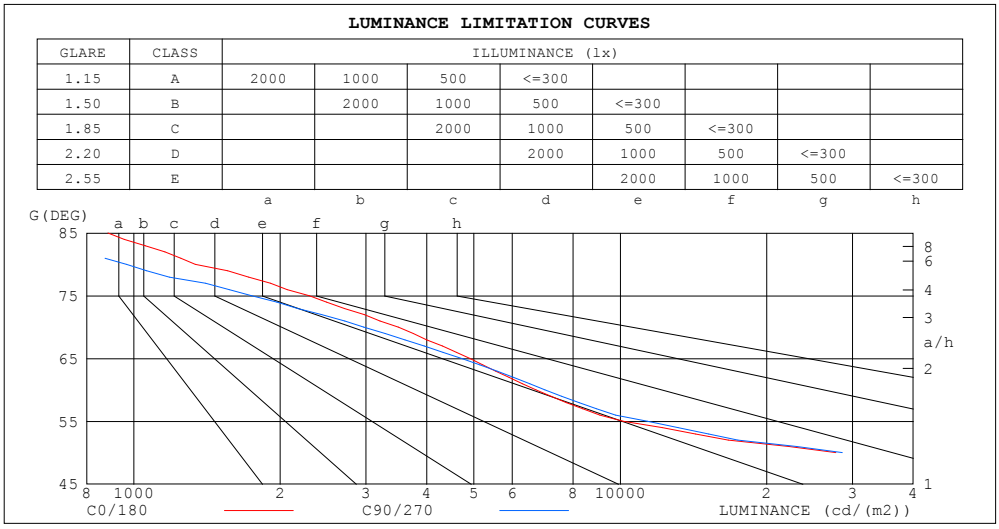
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:219.43V I:0.1992A P:43.539W PF:0.9961 Freq:49.99Hz Lamp Flux:3300.51x1 lm		
Name: HCP-81322138 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:



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	884	567
80	1338	966
75	2295	1748
70	3494	2970
65	4907	4717
60	6713	7002
55	10128	11365
50	27732	28589
45	126636	134167

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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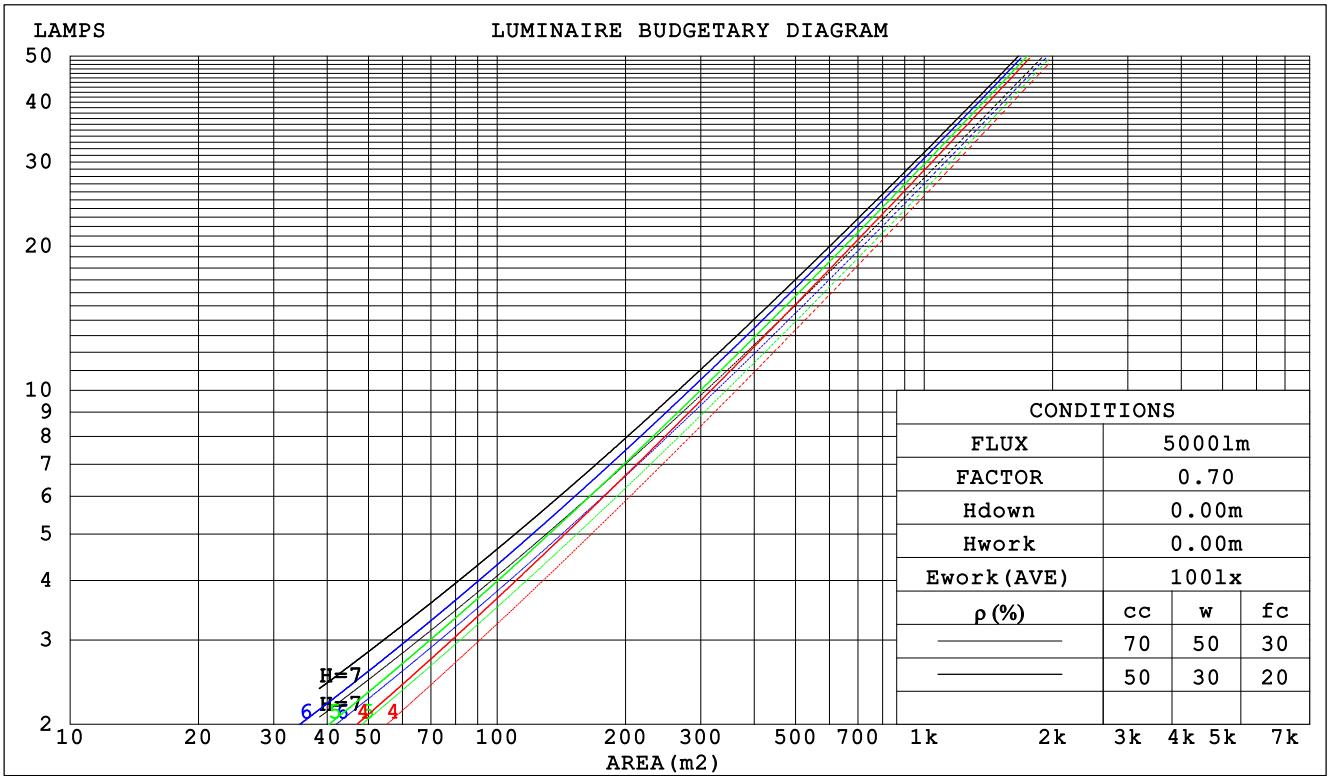
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

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	1.00
1.0	1.10	1.08	1.05	1.08	1.06	1.04	1.04	1.02	1.00	1.00	.99	.97	.97	.96	.95	.93
2.0	1.02	.98	.94	1.00	.96	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.94	.89	.85	.93	.88	.84	.90	.86	.83	.88	.84	.81	.85	.83	.80	.78
4.0	.87	.82	.77	.86	.81	.77	.84	.79	.76	.82	.78	.75	.80	.77	.74	.72
5.0	.81	.75	.70	.80	.74	.70	.78	.73	.69	.77	.72	.69	.75	.71	.68	.67
6.0	.76	.69	.65	.75	.69	.65	.73	.68	.64	.72	.67	.64	.71	.66	.63	.62
7.0	.71	.64	.60	.70	.64	.60	.69	.63	.59	.68	.63	.59	.66	.62	.59	.57
8.0	.66	.60	.56	.66	.60	.55	.65	.59	.55	.63	.59	.55	.62	.58	.55	.53
9.0	.62	.56	.52	.62	.56	.52	.61	.55	.51	.60	.55	.51	.59	.54	.51	.50
10.0	.59	.52	.48	.58	.52	.48	.57	.52	.48	.56	.52	.48	.56	.51	.48	.46



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Remarks:

WEC AND CCEC

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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	.188	.107	.034	.182	.104	.033	.169	.097	.031	.157	.091	.029	.147	.085	.027	
2.0	.182	.100	.031	.176	.097	.030	.166	.092	.029	.156	.087	.027	.147	.083	.026	
3.0	.174	.093	.028	.169	.091	.027	.160	.087	.026	.152	.083	.026	.144	.080	.025	
4.0	.166	.087	.025	.162	.085	.025	.154	.082	.024	.147	.079	.024	.140	.076	.023	
5.0	.159	.081	.023	.155	.080	.023	.148	.077	.023	.142	.075	.022	.136	.072	.022	
6.0	.152	.076	.022	.148	.075	.022	.142	.073	.021	.136	.071	.021	.131	.069	.020	
7.0	.145	.072	.020	.142	.071	.020	.136	.069	.020	.131	.067	.020	.126	.066	.019	
8.0	.138	.068	.019	.136	.067	.019	.131	.065	.019	.126	.064	.018	.122	.063	.018	
9.0	.132	.064	.018	.130	.063	.018	.125	.062	.018	.121	.061	.017	.117	.060	.017	
10.0	.127	.061	.017	.124	.060	.017	.120	.059	.017	.117	.058	.016	.113	.057	.016	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.172	.157	.144	.147	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.135	.114	.096	.093	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.146	.114	.088	.125	.098	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.136	.099	.071	.117	.086	.061	.081	.060	.043	.047	.035	.026	.015	.011	.008	
5.0	.128	.088	.058	.110	.076	.050	.076	.053	.036	.044	.031	.021	.014	.010	.007	
6.0	.121	.079	.048	.104	.068	.042	.072	.048	.030	.042	.028	.018	.013	.009	.006	
7.0	.115	.071	.041	.099	.062	.035	.068	.043	.025	.040	.026	.015	.013	.008	.005	
8.0	.109	.065	.035	.094	.057	.030	.065	.040	.021	.038	.023	.013	.012	.008	.004	
9.0	.104	.060	.030	.090	.052	.026	.062	.037	.019	.036	.022	.011	.012	.007	.004	
10.0	.100	.056	.026	.086	.048	.023	.060	.034	.016	.035	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
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Operators:DAMIN
Test Date:2023-03-06

γ Range: 0 - 90DEG
γInterval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:219.43V I:0.1992A P:43.539W PF:0.9961 Freq:49.99Hz Lamp Flux:3300.51x1 lm		
Name: HCP-81322138 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	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	20.4	21.4	20.6	21.6	21.8	20.5	21.5	20.7	21.7	21.9
3H	20.2	21.2	20.5	21.4	21.6	20.3	21.3	20.6	21.5	21.7
4H	20.1	21.0	20.4	21.3	21.5	20.2	21.1	20.5	21.4	21.6
6H	20.1	20.9	20.4	21.1	21.4	20.2	21.0	20.5	21.2	21.5
8H	20.0	20.8	20.3	21.1	21.3	20.1	20.9	20.4	21.2	21.4
12H	20.0	20.7	20.3	21.0	21.3	20.1	20.8	20.4	21.1	21.4
4H 2H	20.1	21.0	20.4	21.3	21.5	20.2	21.1	20.5	21.4	21.6
3H	20.0	20.7	20.3	21.0	21.3	20.1	20.8	20.4	21.1	21.4
4H	19.9	20.6	20.2	20.9	21.2	20.0	20.7	20.3	21.0	21.3
6H	19.8	20.4	20.2	20.7	21.1	19.9	20.5	20.3	20.8	21.2
8H	19.7	20.3	20.1	20.7	21.0	19.8	20.4	20.2	20.8	21.1
12H	19.7	20.2	20.1	20.6	21.0	19.8	20.3	20.2	20.7	21.1
8H 4H	19.7	20.3	20.1	20.7	21.0	19.8	20.4	20.2	20.8	21.1
6H	19.6	20.1	20.1	20.5	20.9	19.7	20.2	20.2	20.6	21.0
8H	19.6	20.0	20.0	20.4	20.9	19.7	20.1	20.1	20.5	21.0
12H	19.5	19.9	20.0	20.3	20.8	19.6	20.0	20.1	20.4	20.9
12H 4H	19.7	20.2	20.1	20.6	21.0	19.8	20.3	20.2	20.7	21.1
6H	19.6	20.0	20.0	20.4	20.9	19.7	20.1	20.1	20.5	21.0
8H	19.5	19.9	20.0	20.3	20.8	19.6	20.0	20.1	20.4	20.9

Variations with the observer position at spacings:		
S = 1.0H	+ 3.1 / -13.3	+ 3.2 / -13.5
1.5H	+ 3.1 / -12.0	+ 3.1 / -12.5
2.0H	+ 7.6 / -10.7	+ 7.9 / -11.3

CIE Pub.117, 3301 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.1)

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Humidity:65.0%
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UTILIZATION FACTORS TABLE

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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	81	73	69	80	73	69	79	73	69	64
0.80	89	82	78	89	82	78	87	81	78	73
1.00	95	89	85	94	88	84	93	88	84	79
1.25	100	94	90	99	94	90	97	92	89	84
1.50	103	98	94	102	97	94	100	96	93	88
2.00	107	102	99	105	101	98	103	99	96	91
2.50	109	105	101	107	103	100	104	101	98	92
3.00	111	107	104	109	105	103	105	103	100	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	111	109	112	110	108	108	106	105	97
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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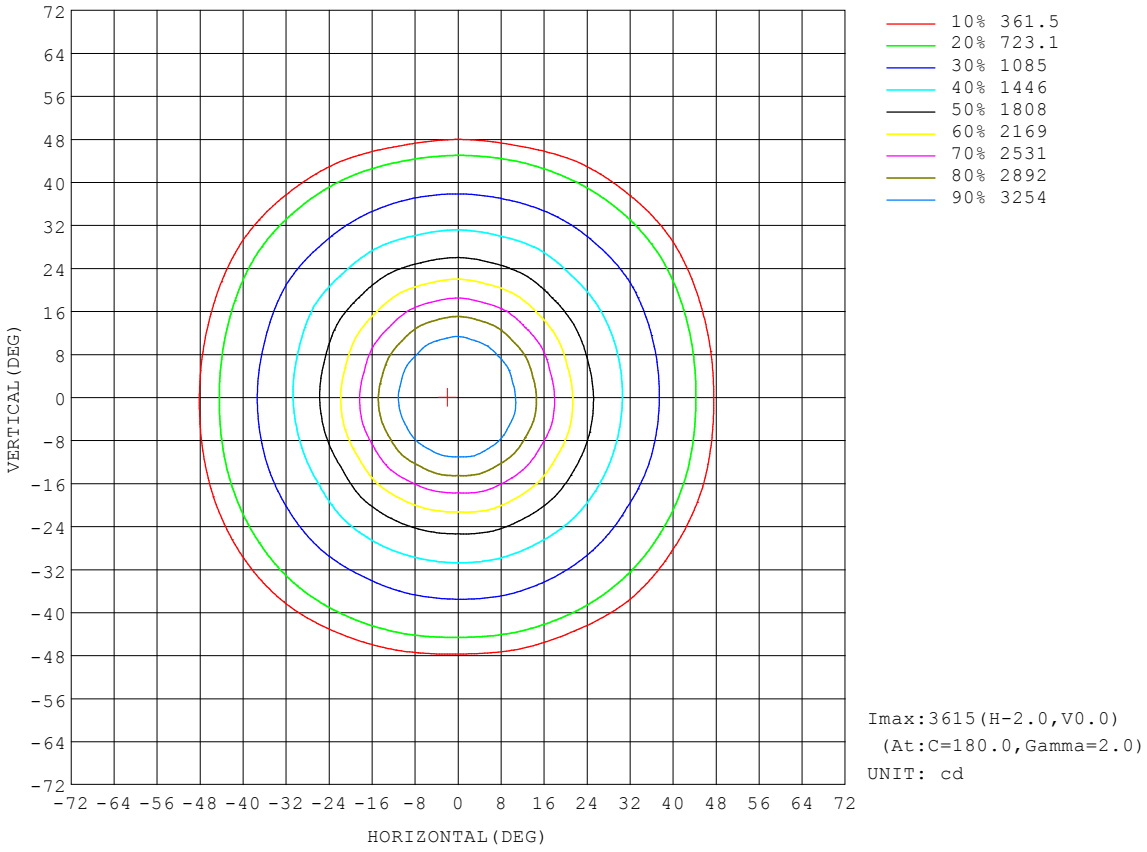

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AAI CURVES

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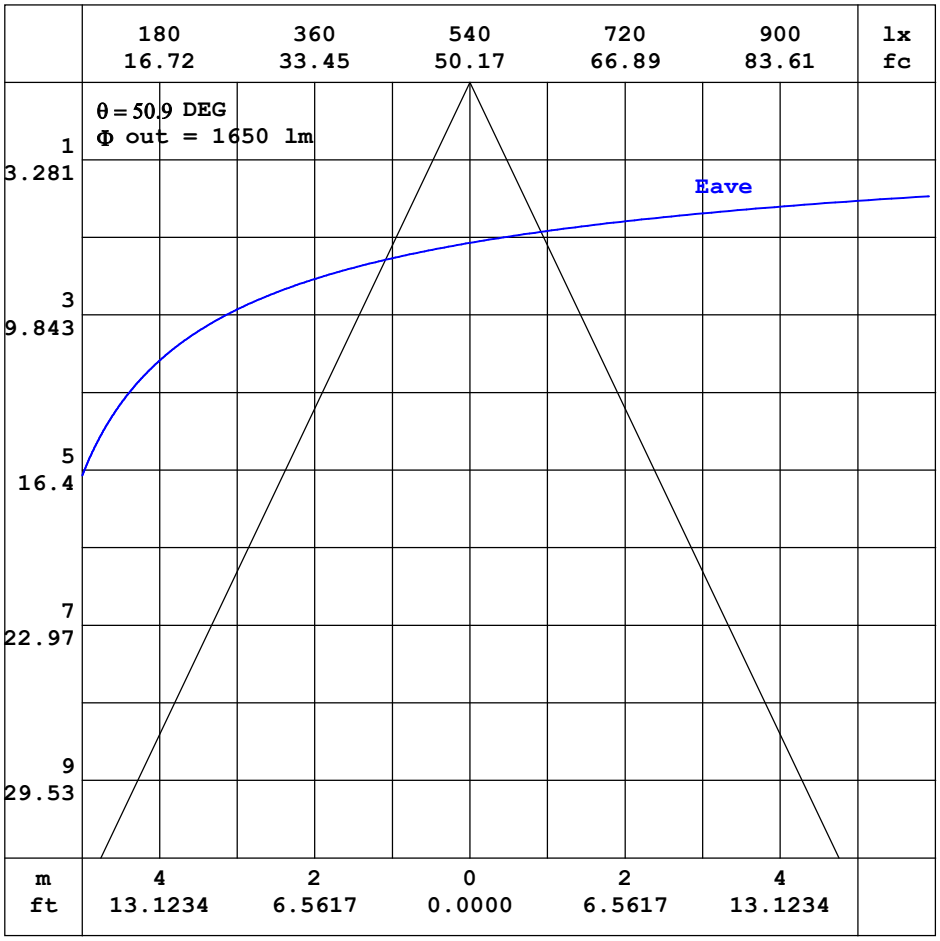

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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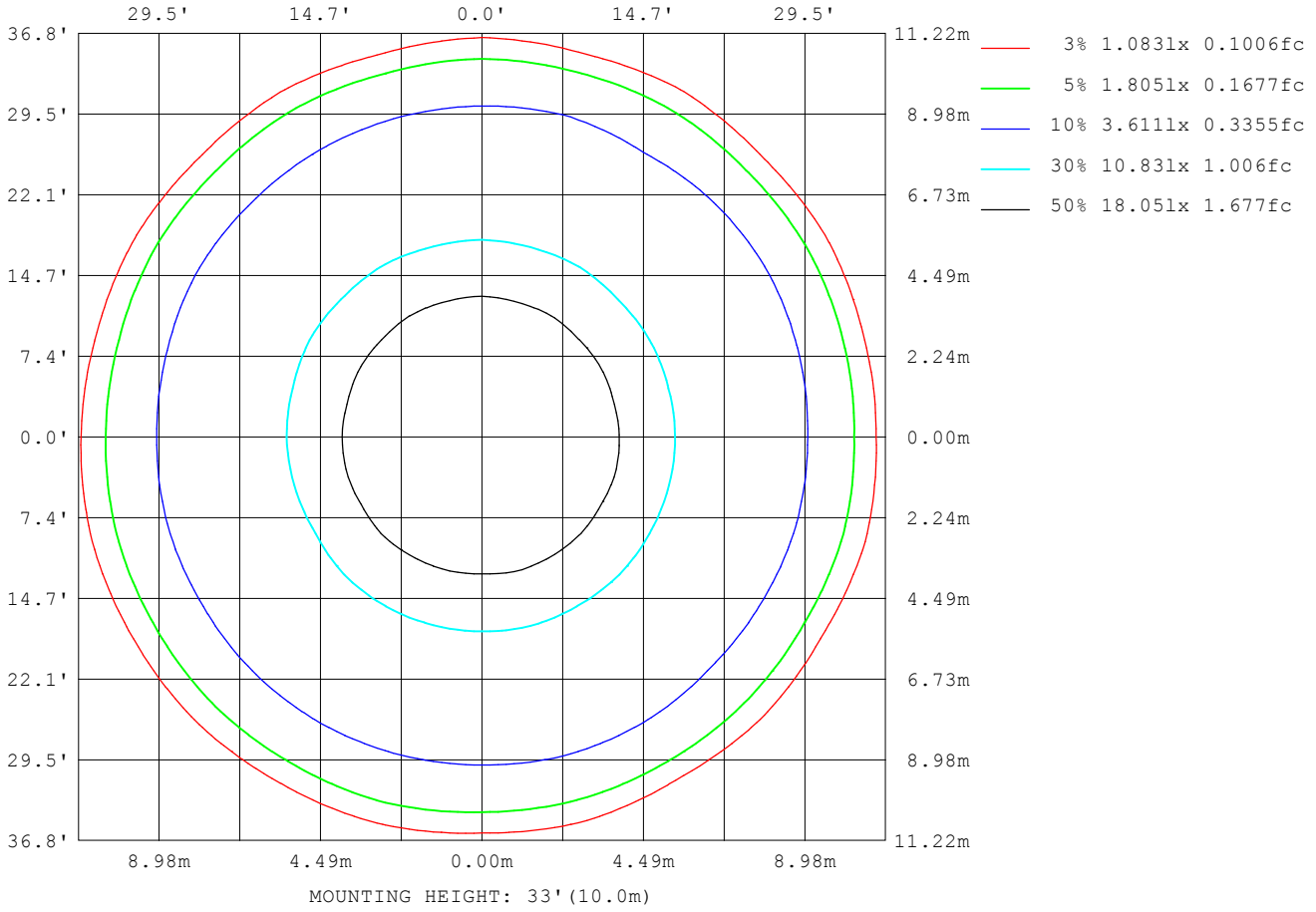

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LED Avg.L Report

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

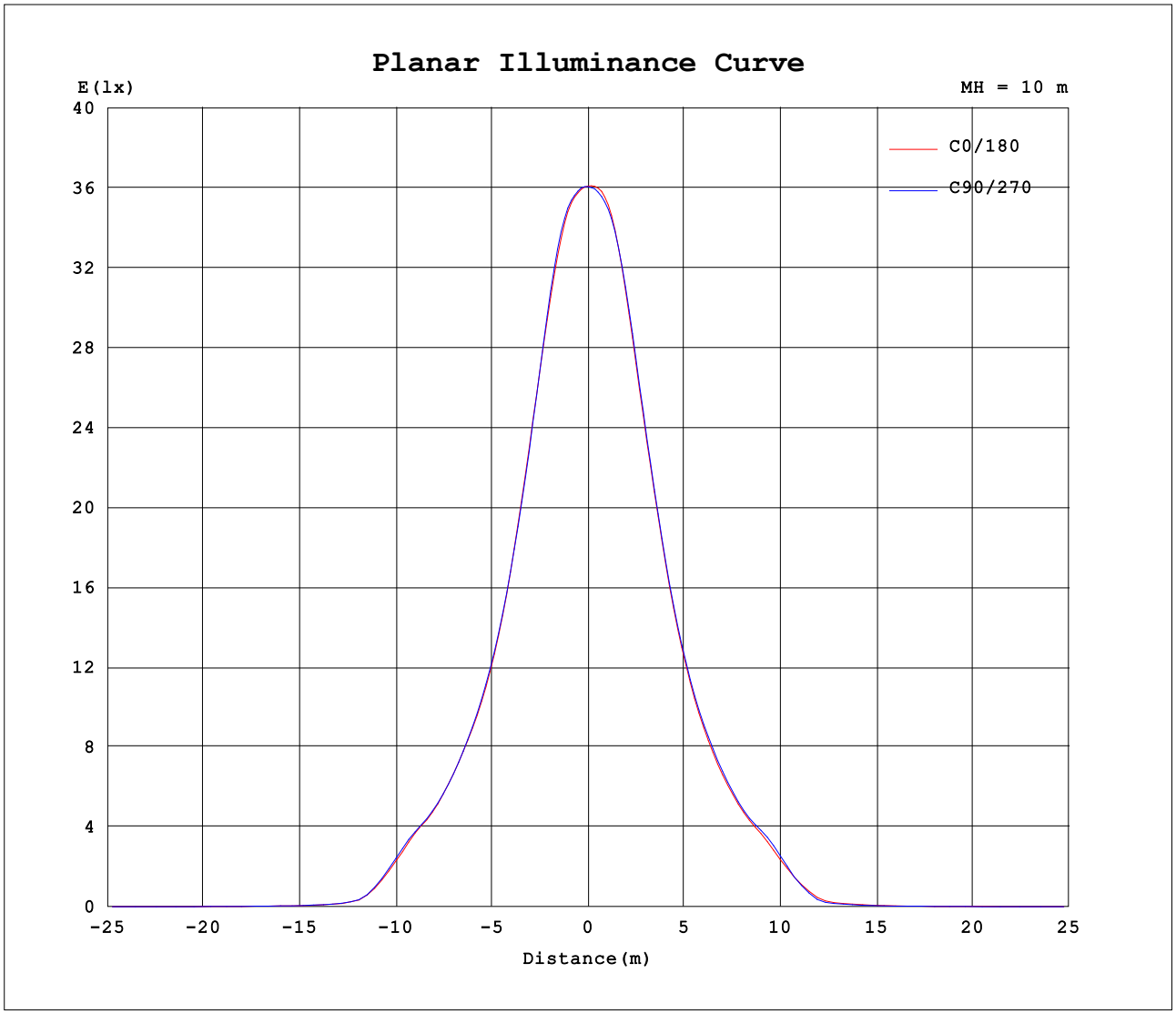
AvgL	cd/m2
L_0~180(65)av	5160
L_0~180(75)av	2347
L_0~180(85)av	909
L_90~270(65)av	4772
L_90~270(75)av	1866
L_90~270(85)av	593
L_45(65)av	5246
L_45(75)av	2241
L_45(85)av	697

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-03-06

γ Range: 0 - 90DEG
γInterval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-03-06

γ Range: 0 - 90DEG
γInterval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.43V I:0.1992A P:43.539W PF:0.9961 Freq:49.99Hz Lamp Flux:3300.51x1 lm		
Name: HCP-81322138 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	3610	3610	3609	3609	3609	3609	3607	3607	3605	3604	3605	3602	3610	3610	3609	3609	3609	3609	3607
5	3566	3571	3571	3575	3574	3578	3579	3585	3587	3590	3584	3586	3595	3590	3590	3583	3581	3570	3570
10	3309	3328	3319	3343	3340	3361	3344	3358	3341	3359	3338	3346	3352	3336	3354	3342	3365	3345	3359
15	2848	2863	2843	2863	2847	2868	2843	2863	2851	2884	2866	2880	2875	2857	2876	2868	2895	2882	2898
20	2311	2325	2296	2326	2318	2331	2295	2316	2324	2360	2332	2359	2358	2336	2361	2346	2377	2355	2371
25	1823	1833	1830	1856	1847	1864	1838	1849	1857	1867	1822	1857	1872	1866	1896	1885	1907	1882	1891
30	1478	1476	1479	1489	1483	1499	1493	1490	1493	1492	1459	1472	1492	1499	1533	1514	1530	1508	1518
35	1215	1213	1194	1204	1206	1214	1214	1210	1195	1201	1194	1192	1205	1206	1228	1212	1226	1234	1236
40	970	964	954	954	983	992	983	977	972	970	963	970	965	964	982	974	978	990	989
45	648	666	649	664	675	699	687	712	707	706	690	691	669	675	701	695	713	709	723
50	129	139	129	136	158	132	133	157	165	190	191	199	181	161	160	142	141	126	138
55	42.0	47.2	47.6	50.2	45.9	45.2	47.2	45.7	48.9	54.1	55.6	56.5	55.0	51.9	51.8	49.6	48.3	44.0	43.9
60	24.3	26.3	27.0	27.6	25.8	25.4	25.3	25.1	25.3	27.5	27.5	27.7	27.5	26.9	27.5	27.3	26.6	24.8	24.2
65	15.0	16.0	16.2	16.6	15.3	14.6	14.4	14.3	14.7	16.3	16.3	16.4	16.6	16.3	16.7	16.7	16.2	15.0	14.8
70	8.65	8.96	8.92	8.99	8.20	7.51	7.35	7.36	7.78	8.69	8.88	8.97	9.11	9.06	9.29	9.30	8.74	7.97	8.00
75	4.30	4.28	4.00	4.18	3.70	3.41	3.27	3.34	3.52	4.15	4.32	4.44	4.49	4.43	4.44	4.36	4.12	3.71	3.72
80	1.68	1.59	1.50	1.48	1.33	1.22	1.21	1.21	1.31	1.50	1.68	1.81	1.83	1.75	1.68	1.68	1.57	1.49	1.44
85	0.56	0.48	0.46	0.37	0.38	0.31	0.36	0.32	0.38	0.42	0.51	0.54	0.59	0.59	0.52	0.48	0.44	0.44	0.39
90	0.16	0.16	0.17	0.14	0.13	0.13	0.15	0.15	0.13	0.13	0.16	0.16	0.19	0.19	0.18	0.18	0.17	0.18	0.18

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-03-06

γ Range: 0 - 90DEG
γInterval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.43V I:0.1992A P:43.539W PF:0.9961 Freq:49.99Hz Lamp Flux:3300.51x1 lm		
Name: HCP-81322138 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

Table--2 UNIT: cd

γ (DEG) \ C(DEG)	285	300	315	330	345
0	3607	3605	3604	3605	3602
5	3561	3562	3555	3556	3554
10	3333	3329	3308	3312	3298
15	2873	2878	2848	2856	2831
20	2340	2353	2311	2320	2283
25	1868	1871	1828	1828	1808
30	1501	1508	1476	1487	1480
35	1221	1243	1217	1233	1225
40	993	968	989	995	981
45	718	700	686	691	667
50	129	145	133	137	126
55	39.9	42.6	40.3	39.8	38.6
60	23.1	23.8	23.4	22.8	22.8
65	14.2	14.7	14.6	14.4	14.3
70	7.67	8.14	8.50	8.53	8.47
75	3.61	3.85	4.11	4.30	4.30
80	1.44	1.50	1.63	1.70	1.72
85	0.42	0.42	0.48	0.52	0.57
90	0.18	0.18	0.18	0.19	0.18

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-03-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: