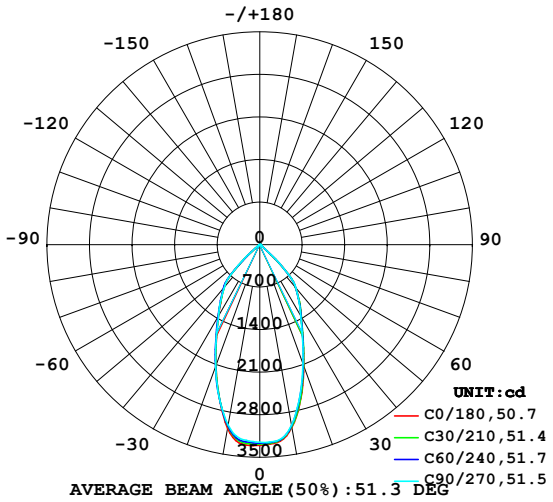
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.44V I:0.2012A P:43.980W PF:0.9963 Freq:49.99Hz Lamp Flux:2956.48x1 lm		
Name: HCP-81322138 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

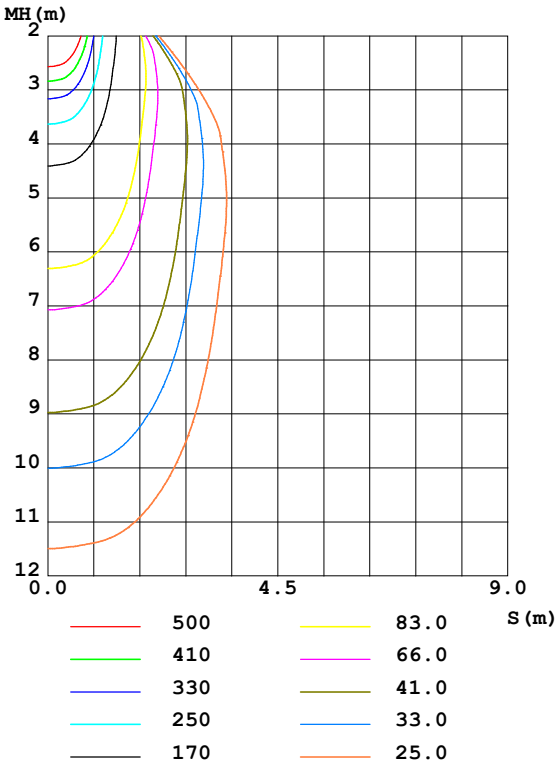
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 67.22 lm/W	
MODEL	HCP-81322138	Imax(cd)	3308	S/MH(C0/180)	0.77
NOMINAL POWER(W)	45	LOR(%)	100.0	S/MH(C90/270)	0.78
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2956.5	η UP,DN(C0-180)	0.0,50.2
NOMINAL FLUX(lm)	2956.48	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.75

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):51.3 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	3055	3052	3017	3026	3066	3011	3014	2967	0- 10	302.4	302.4	10.2,10.2
20	2118	2134	2081	2092	2113	2104	2129	2058	10- 20	714.8	1017	34.4,34.4
30	1362	1385	1355	1343	1364	1363	1362	1322	20- 30	771.9	1789	60.5,60.5
40	916.5	926.7	918.0	896.5	910.8	911.3	907.0	884.9	30- 40	696.7	2486	84.1,84.1
50	109.9	104.2	124.6	134.4	99.34	112.3	124.2	118.9	40- 50	420.1	2906	98.3,98.3
60	17.27	18.16	18.87	20.98	17.22	18.08	18.79	18.69	50- 60	34.68	2941	99.5,99.5
70	6.411	6.691	5.999	7.159	6.506	6.791	6.487	6.900	60- 70	11.97	2952	99.9,99.9
80	1.061	0.9585	0.9049	1.101	1.101	1.063	0.9973	1.219	70- 80	3.497	2956	100,100
90	0.1216	0.1303	0.1303	0.1303	0.1520	0.1303	0.1477	0.1520	80- 90	0.4955	2956	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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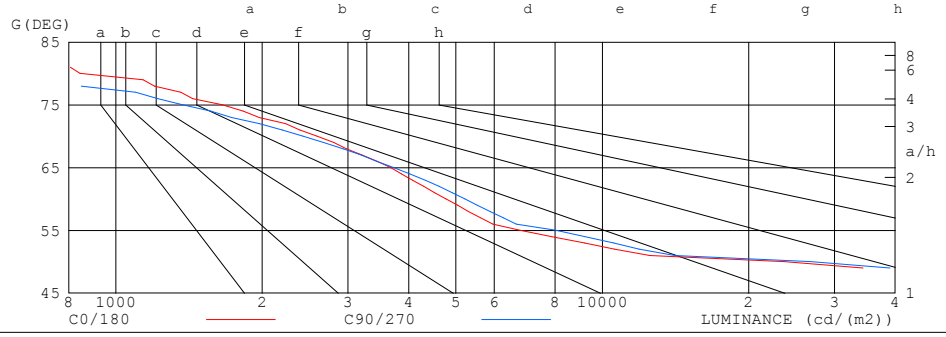
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:219.44V I:0.2012A P:43.980W PF:0.9963 Freq:49.99Hz Lamp Flux:2956.48x1 lm		
Name: HCP-81322138 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	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	725	477
80	844	720
75	1654	1371
70	2590	2423
65	3670	3722
60	4773	5214
55	6772	8022
50	23616	26789
45	112917	110726

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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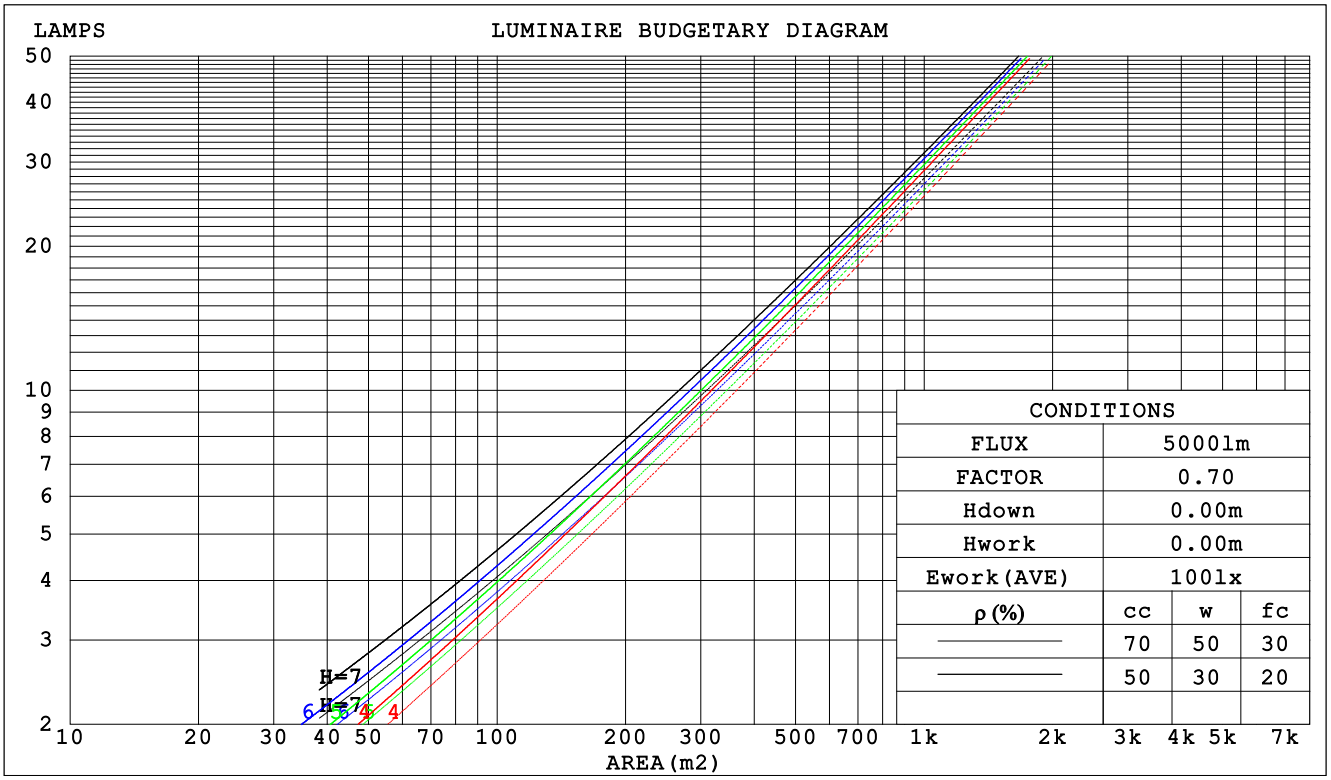
Name: HCP-81322138 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

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	.86
3.0	.94	.89	.85	.93	.88	.84	.90	.86	.83	.88	.85	.82	.86	.83	.80	.79
4.0	.88	.82	.77	.87	.81	.77	.84	.80	.76	.82	.78	.75	.80	.77	.74	.73
5.0	.82	.75	.71	.81	.75	.70	.79	.74	.70	.77	.73	.69	.75	.72	.69	.67
6.0	.76	.70	.65	.75	.69	.65	.74	.68	.64	.72	.68	.64	.71	.67	.64	.62
7.0	.71	.65	.60	.70	.64	.60	.69	.64	.60	.68	.63	.59	.67	.62	.59	.58
8.0	.67	.60	.56	.66	.60	.56	.65	.59	.55	.64	.59	.55	.63	.58	.55	.54
9.0	.63	.56	.52	.62	.56	.52	.61	.56	.52	.60	.55	.52	.59	.55	.51	.50
10.0	.59	.53	.49	.58	.53	.49	.58	.52	.48	.57	.52	.48	.56	.51	.48	.47



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WEC AND CCEC

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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	.187	.106	.034	.180	.103	.033	.168	.096	.031	.156	.090	.029	.145	.084	.027	
2.0	.181	.099	.030	.175	.096	.030	.164	.091	.028	.155	.087	.027	.145	.082	.026	
3.0	.173	.092	.028	.168	.090	.027	.159	.086	.026	.151	.083	.025	.143	.079	.024	
4.0	.165	.086	.025	.161	.084	.025	.153	.081	.024	.146	.078	.024	.139	.075	.023	
5.0	.158	.080	.023	.154	.079	.023	.147	.077	.023	.141	.074	.022	.135	.072	.022	
6.0	.151	.076	.022	.147	.074	.021	.141	.072	.021	.136	.070	.021	.130	.069	.020	
7.0	.144	.071	.020	.141	.070	.020	.136	.069	.020	.130	.067	.019	.126	.065	.019	
8.0	.138	.067	.019	.135	.066	.019	.130	.065	.019	.125	.064	.018	.121	.062	.018	
9.0	.132	.064	.018	.129	.063	.018	.125	.062	.018	.121	.061	.017	.117	.059	.017	
10.0	.126	.060	.017	.124	.060	.017	.120	.059	.017	.116	.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	.157	.132	.111	.135	.114	.096	.092	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.146	.114	.088	.125	.098	.076	.086	.068	.054	.050	.040	.032	.016	.013	.010	
4.0	.136	.099	.071	.117	.086	.061	.080	.060	.043	.046	.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	.025	.015	.013	.008	.005	
8.0	.109	.065	.035	.094	.056	.030	.065	.040	.022	.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	.099	.056	.026	.086	.048	.023	.059	.034	.016	.035	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
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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:

UGR(Unified Glare Rating) Table

Test:U:219.44V I:0.2012A P:43.980W PF:0.9963 Freq:49.99Hz Lamp Flux:2956.48x1 lm		
Name: HCP-81322138 2700K	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	20.6	21.6	20.8	21.8	22.0	20.6	21.6	20.8	21.8	22.0
	3H	20.4	21.4	20.7	21.6	21.8	20.4	21.4	20.7	21.6	21.8
	4H	20.3	21.2	20.6	21.4	21.7	20.3	21.2	20.6	21.4	21.7
	6H	20.2	21.1	20.5	21.3	21.6	20.2	21.1	20.5	21.3	21.6
	8H	20.2	21.0	20.5	21.2	21.5	20.2	21.0	20.5	21.2	21.5
	12H	20.2	20.9	20.5	21.2	21.5	20.1	20.9	20.5	21.2	21.5
4H	2H	20.3	21.2	20.6	21.4	21.7	20.3	21.2	20.6	21.4	21.7
	3H	20.2	20.9	20.5	21.2	21.5	20.2	20.9	20.5	21.2	21.5
	4H	20.1	20.8	20.4	21.1	21.4	20.1	20.8	20.4	21.1	21.4
	6H	20.0	20.6	20.4	20.9	21.3	20.0	20.6	20.3	20.9	21.3
	8H	19.9	20.5	20.3	20.8	21.2	19.9	20.5	20.3	20.8	21.2
	12H	19.9	20.4	20.3	20.8	21.1	19.9	20.4	20.3	20.8	21.1
8H	4H	19.9	20.5	20.3	20.8	21.2	19.9	20.5	20.3	20.8	21.2
	6H	19.8	20.3	20.3	20.7	21.1	19.8	20.3	20.3	20.7	21.1
	8H	19.8	20.2	20.2	20.6	21.0	19.8	20.2	20.2	20.6	21.0
	12H	19.7	20.1	20.2	20.5	21.0	19.7	20.1	20.2	20.5	21.0
12H	4H	19.9	20.4	20.3	20.8	21.1	19.9	20.4	20.3	20.8	21.1
	6H	19.8	20.2	20.2	20.6	21.0	19.8	20.2	20.2	20.6	21.0
	8H	19.7	20.1	20.2	20.5	21.0	19.7	20.1	20.2	20.5	21.0

Variations with the observer position at spacings:		
S = 1.0H	+ 3.1 / -15.4	+ 3.1 / -15.3
1.5H	+ 3.5 / -14.8	+ 3.5 / -14.7
2.0H	+ 8.0 / -12.0	+ 7.9 / -12.0

CIE Pub.117, 2956 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.8)

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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:

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	82	74	70	81	74	70	80	74	69	65
0.80	90	83	79	89	83	79	88	82	78	74
1.00	96	89	85	95	89	85	93	89	84	80
1.25	101	95	91	99	94	90	97	93	90	85
1.50	104	98	95	102	98	94	100	96	93	88
2.00	107	102	99	106	101	98	103	99	97	91
2.50	109	105	101	107	103	101	104	101	99	92
3.00	111	107	104	109	106	103	105	103	101	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	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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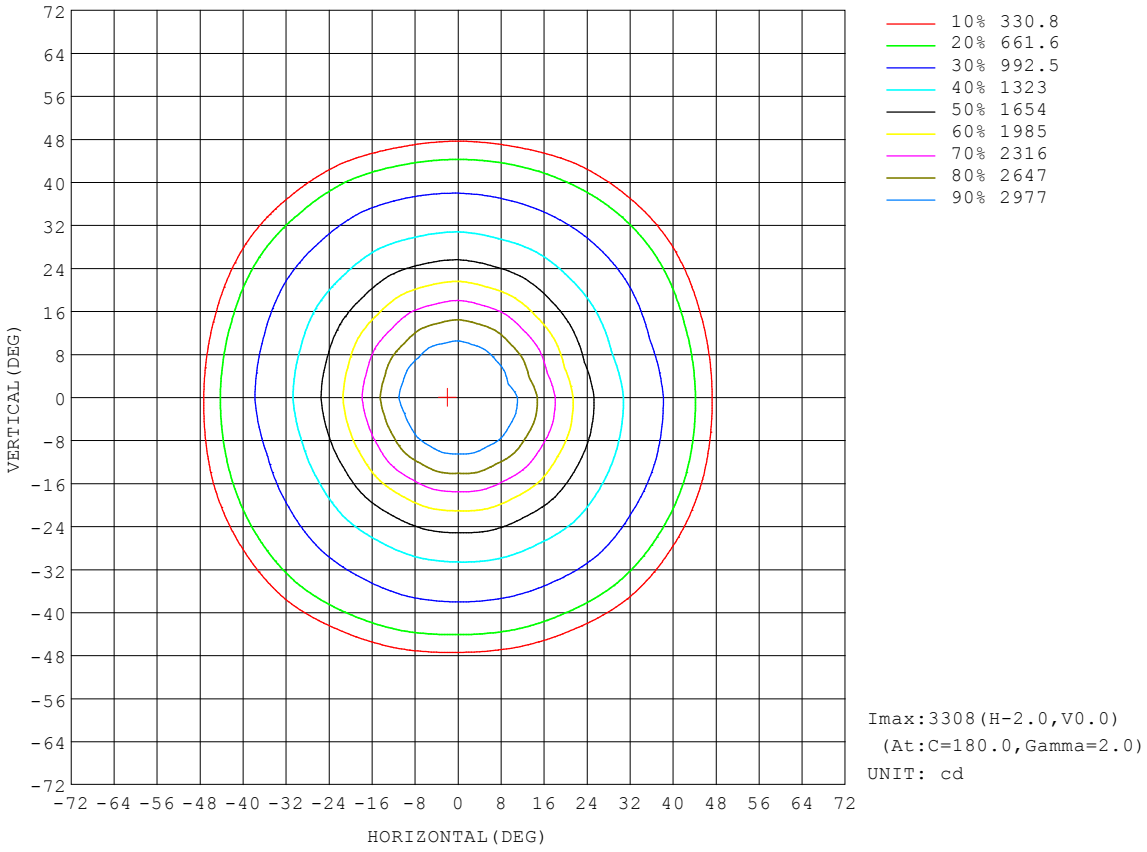

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AAI CURVES

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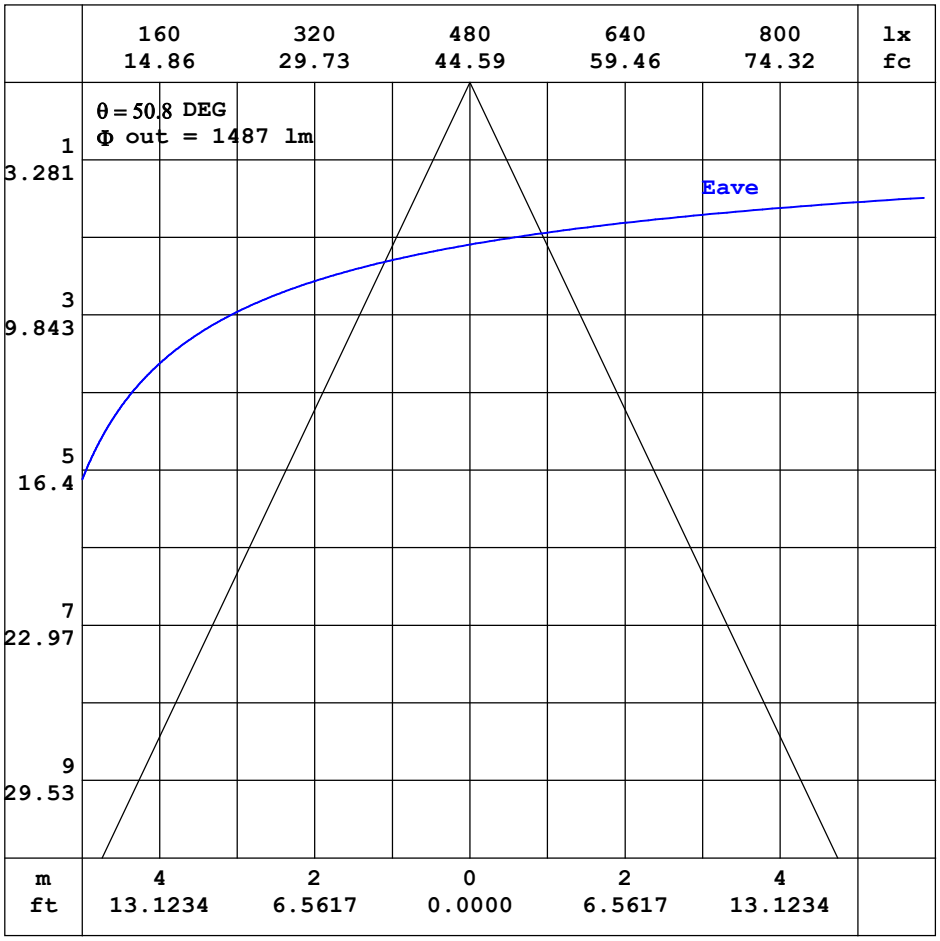

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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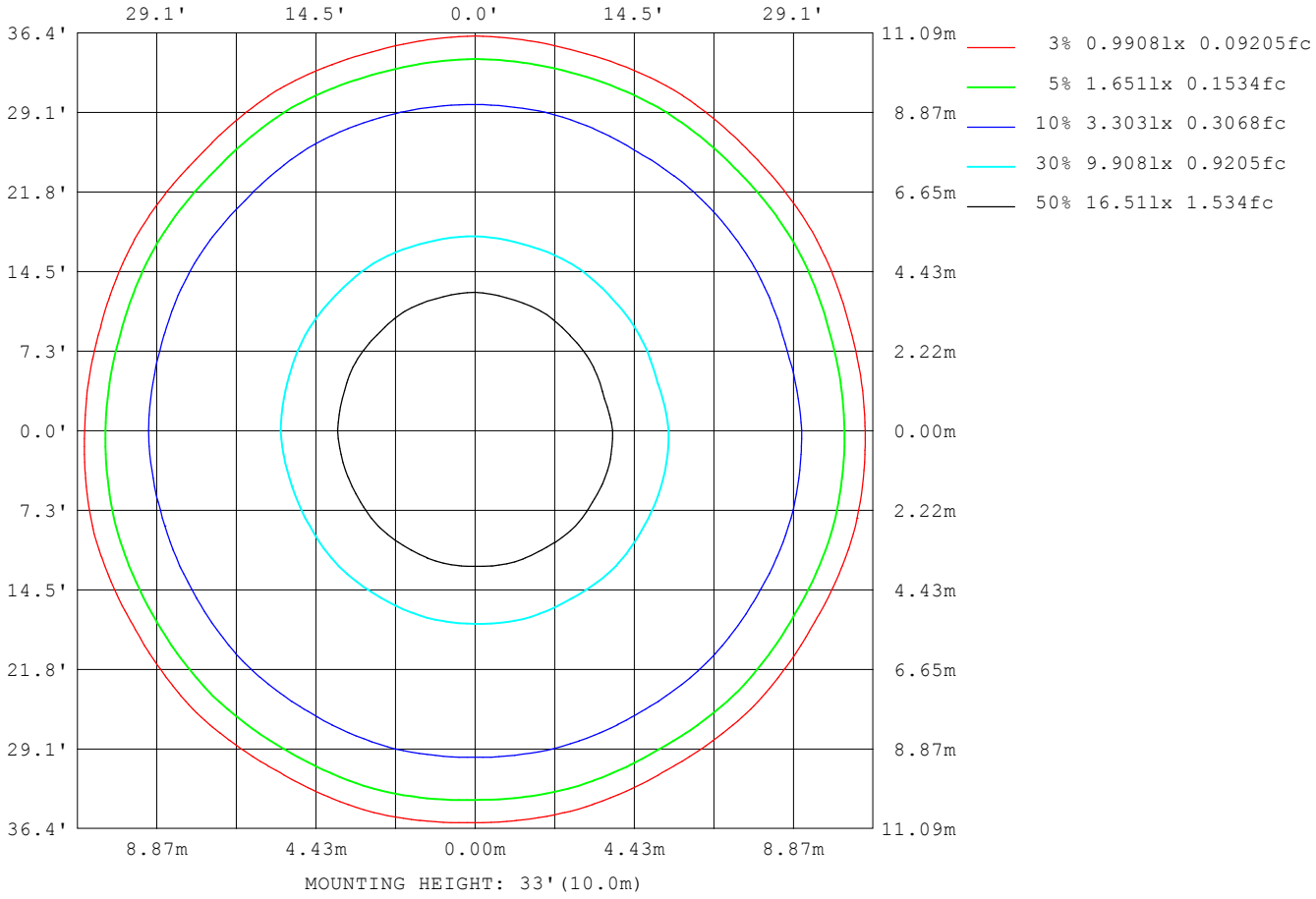

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Remarks:

LED Avg.L Report

Test:U:219.44V I:0.2012A P:43.980W PF:0.9963 Freq:49.99Hz Lamp Flux:2956.48x1 lm		
Name: HCP-81322138 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

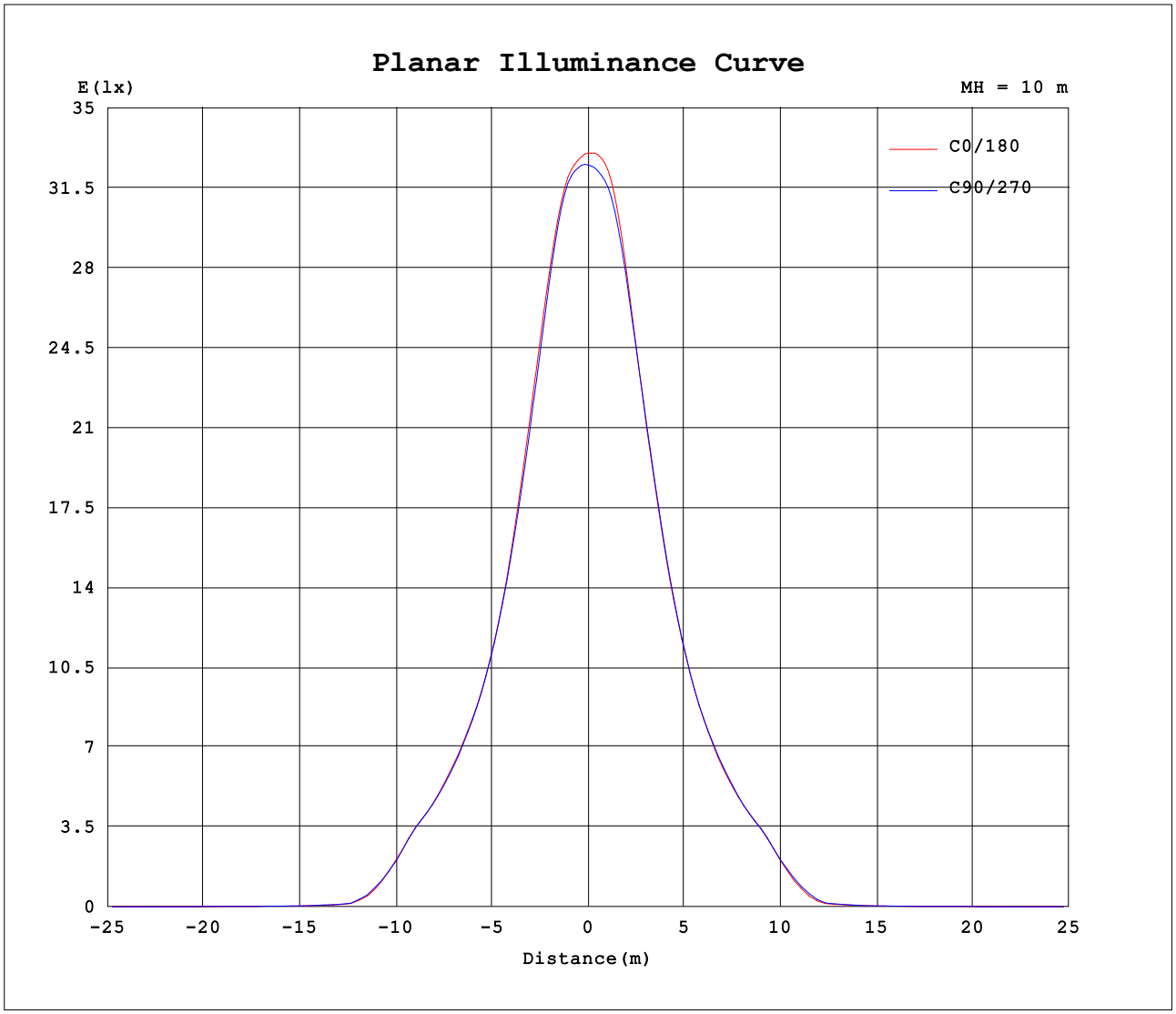
AvgL	cd/m2
L_0~180(65)av	3703
L_0~180(75)av	1669
L_0~180(85)av	716
L_90~270(65)av	3794
L_90~270(75)av	1426
L_90~270(85)av	486
L_45(65)av	3988
L_45(75)av	1706
L_45(85)av	579

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



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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:219.44V I:0.2012A P:43.980W PF:0.9963 Freq:49.99Hz Lamp Flux:2956.48x1 lm		
Name: HCP-81322138 2700K	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	3303	3291	3280	3271	3264	3257	3250	3243	3237	3229	3225	3217	3303	3291	3280	3271	3264	3257	3250
5	3267	3264	3258	3257	3248	3247	3240	3237	3231	3227	3217	3213	3296	3279	3269	3258	3247	3228	3220
10	3055	3060	3040	3052	3025	3037	3017	3030	3013	3026	3006	3012	3066	3036	3035	3011	3031	3005	3014
15	2623	2635	2607	2615	2574	2589	2565	2583	2558	2579	2547	2559	2596	2567	2586	2566	2598	2577	2596
20	2118	2140	2118	2134	2098	2107	2081	2097	2076	2092	2066	2081	2113	2093	2119	2104	2136	2113	2129
25	1675	1691	1686	1704	1676	1689	1667	1673	1653	1663	1641	1656	1690	1679	1701	1689	1716	1694	1698
30	1362	1368	1370	1385	1361	1370	1355	1355	1337	1343	1323	1328	1364	1354	1371	1363	1380	1361	1362
35	1137	1149	1140	1148	1126	1125	1120	1119	1097	1094	1077	1072	1112	1105	1119	1114	1130	1123	1128
40	917	922	915	927	923	923	918	918	901	896	881	880	911	903	915	911	927	918	907
45	578	594	571	586	559	574	567	602	593	613	593	597	580	558	570	556	593	575	587
50	110	101	112	104	112	109	125	125	152	134	126	133	99.3	107	96.9	112	115	128	124
55	28.1	29.5	29.1	30.8	29.5	30.2	33.3	31.1	34.5	36.9	38.1	39.7	29.6	28.3	29.6	28.9	31.6	31.1	33.2
60	17.3	17.6	17.7	18.2	18.0	18.4	18.9	19.0	19.8	21.0	21.4	22.0	17.2	17.2	17.8	18.1	18.7	18.4	18.8
65	11.2	11.4	11.5	11.8	11.5	11.3	11.4	11.5	12.1	13.2	13.4	13.6	11.4	11.4	11.7	11.9	12.1	11.7	11.8
70	6.41	6.56	6.59	6.69	6.37	6.00	6.00	5.98	6.44	7.16	7.31	7.42	6.51	6.47	6.68	6.79	6.82	6.40	6.49
75	3.10	3.05	2.97	3.06	2.79	2.59	2.57	2.60	2.80	3.33	3.50	3.59	3.15	3.08	3.09	3.15	3.06	2.72	2.78
80	1.06	1.01	0.97	0.96	0.92	0.86	0.90	0.89	0.97	1.10	1.25	1.41	1.10	1.07	1.00	1.06	1.01	1.03	1.00
85	0.46	0.38	0.38	0.30	0.31	0.25	0.30	0.26	0.34	0.36	0.44	0.44	0.45	0.44	0.37	0.38	0.33	0.35	0.31
90	0.12	0.11	0.13	0.13	0.13	0.11	0.13	0.13	0.13	0.13	0.12	0.12	0.15	0.15	0.13	0.13	0.13	0.15	0.15

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
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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:

LUMINOUS DISTRIBUTION INTENSITY DATA

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Table--2 UNIT: cd

γ (DEG) \ C(DEG)	285	300	315	330	345
0	3243	3237	3229	3225	3217
5	3204	3198	3187	3182	3176
10	2989	2989	2967	2971	2951
15	2567	2576	2541	2555	2526
20	2092	2098	2058	2066	2032
25	1667	1668	1633	1624	1604
30	1340	1344	1322	1321	1307
35	1113	1118	1099	1101	1086
40	899	875	885	881	872
45	583	576	571	576	558
50	128	121	119	100	107
55	30.2	32.2	30.1	30.2	29.3
60	18.4	18.9	18.7	18.7	18.6
65	11.6	11.9	12.0	12.0	11.9
70	6.24	6.58	6.90	7.03	6.96
75	2.71	2.98	3.25	3.39	3.47
80	1.06	1.09	1.22	1.26	1.31
85	0.35	0.35	0.42	0.44	0.50
90	0.13	0.12	0.15	0.15	0.16

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