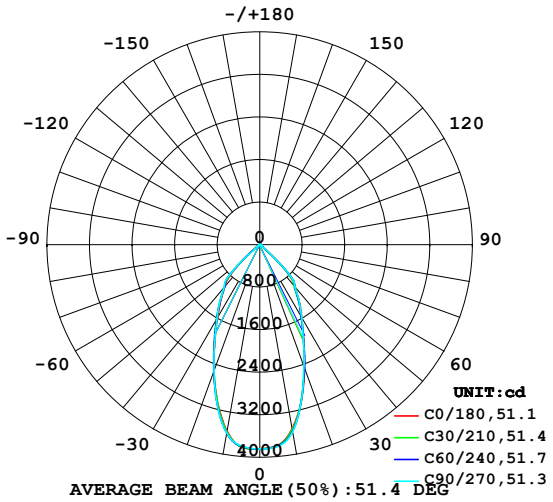
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.47V I:0.1987A P:43.452W PF:0.9962 Freq:49.99Hz Lamp Flux:3522.59x1 lm		
Name: HCP-81322138 5500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

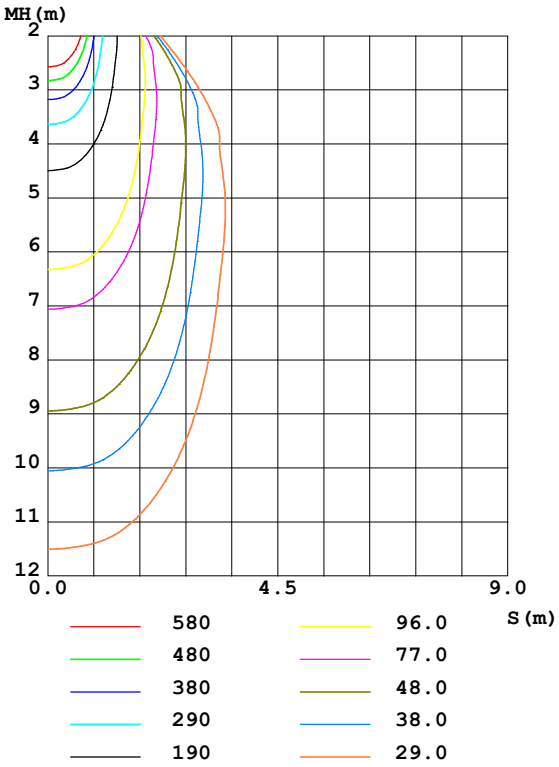
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 81.07 lm/W	
MODEL	HCP-81322138	Imax(cd)	3847	S/MH(C0/180)	0.78
NOMINAL POWER(W)	45	LOR(%)	100.0	S/MH(C90/270)	0.78
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	3522.6	η UP,DN(C0-180)	0.0,49.7
NOMINAL FLUX(lm)	3522.59	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.3
LAMPS INSIDE	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	3517	3561	3571	3580	3560	3571	3594	3531	0- 10	356.1	356.1	10.1,10.1
20	2461	2468	2435	2524	2525	2507	2528	2471	10- 20	847.5	1204	34.2,34.2
30	1577	1568	1577	1589	1593	1614	1615	1576	20- 30	912.6	2116	60.1,60.1
40	1033	998.4	1037	1026	1026	1030	1044	1060	30- 40	805.9	2922	83,83
50	146.0	142.3	128.6	230.0	204.3	145.9	132.6	144.3	40- 50	524.1	3446	97.8,97.8
60	26.31	29.41	26.16	28.45	28.97	28.59	25.65	24.96	50- 60	54.23	3500	99.4,99.4
70	9.332	9.652	7.835	9.263	9.802	9.835	8.508	9.064	60- 70	16.63	3517	99.8,99.8
80	1.821	1.613	1.310	1.643	2.015	1.828	1.539	1.749	70- 80	4.919	3522	100,100
90	0.1737	0.1737	0.1650	0.1564	0.1998	0.1911	0.1868	0.1911	80- 90	0.7006	3523	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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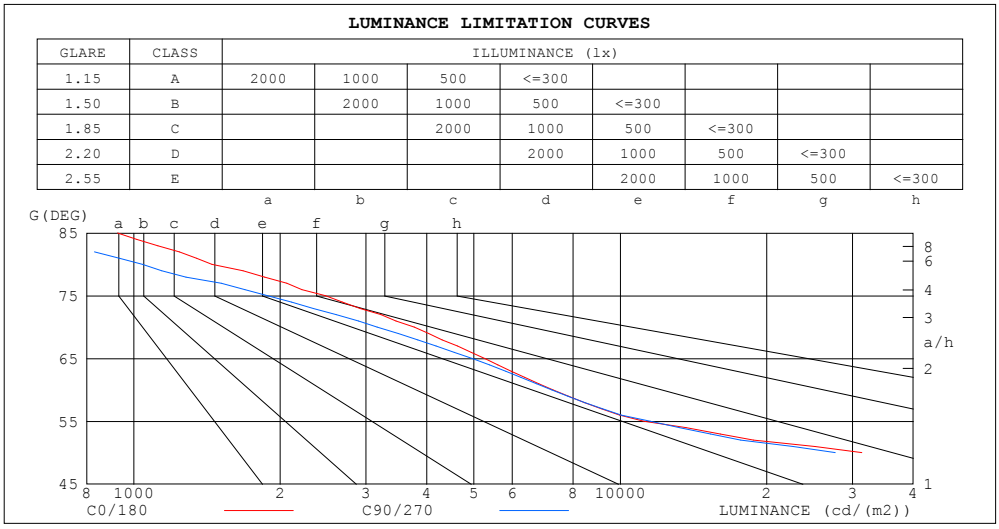
LUMINANCE LIMITATION CURVES

Test:U:219.47V I:0.1987A P:43.452W PF:0.9962 Freq:49.99Hz Lamp Flux:3522.59x1 lm		
Name: HCP-81322138 5500K	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	926	602
80	1449	1042
75	2481	1885
70	3770	3165
65	5267	4961
60	7270	7228
55	11177	11529
50	31373	27646
45	136891	149888

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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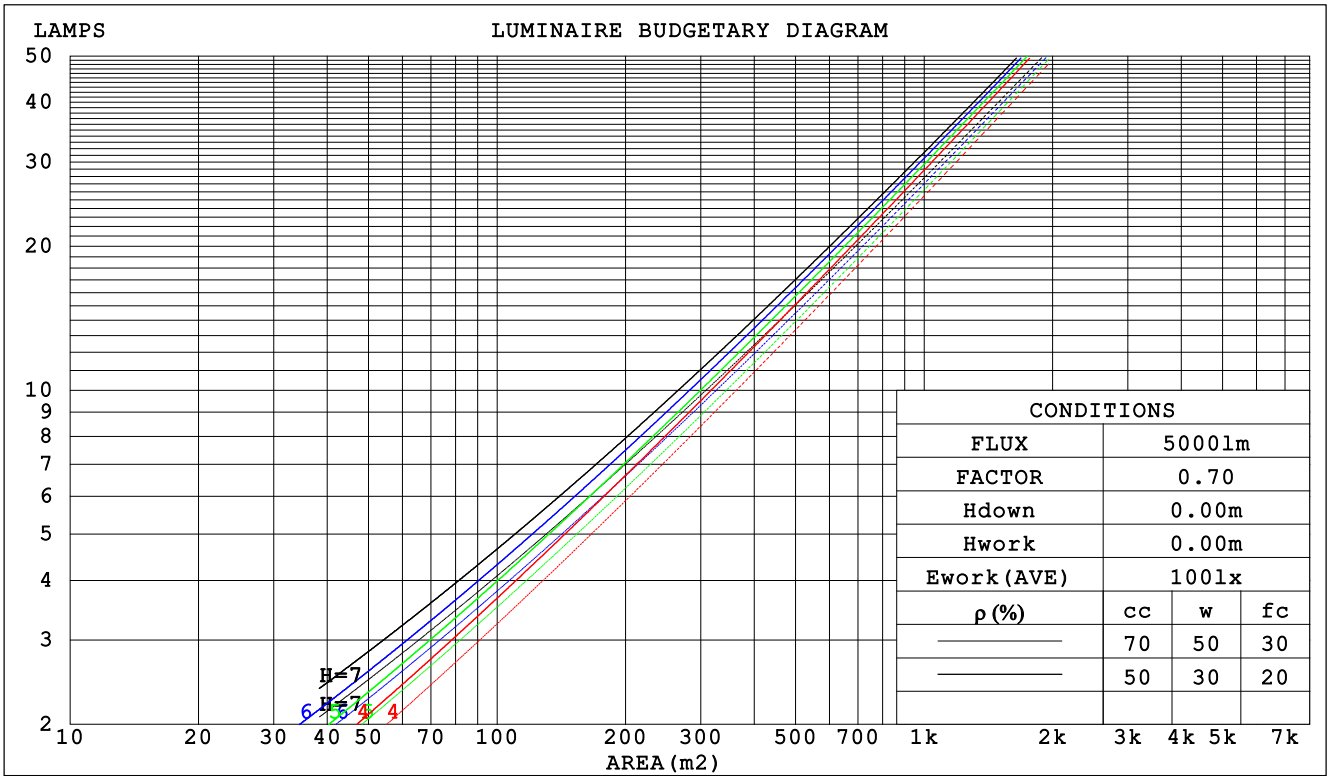
Name: HCP-81322138 5500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

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	.85
3.0	.94	.89	.85	.93	.88	.84	.90	.86	.83	.88	.84	.81	.85	.83	.80	.78
4.0	.87	.81	.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	.67	.63	.59	.66	.62	.59	.57
8.0	.66	.60	.55	.66	.60	.55	.65	.59	.55	.63	.58	.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	.51	.48	.56	.51	.48	.46



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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	.170	.091	.027	.160	.087	.026	.152	.083	.026	.144	.080	.025	
4.0	.167	.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	.126	.062	.018	.121	.061	.017	.117	.060	.017	
10.0	.127	.061	.017	.125	.060	.017	.121	.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	.035	.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
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:

UGR(Unified Glare Rating) Table

Test:U:219.47V I:0.1987A P:43.452W PF:0.9962 Freq:49.99Hz Lamp Flux:3522.59x1 lm		
Name: HCP-81322138 5500K	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	21.8
	3H	20.2	21.2	20.5	21.4	21.6	20.3	21.2	20.6	21.4	21.7
	4H	20.1	21.0	20.4	21.3	21.5	20.2	21.1	20.5	21.3	21.6
	6H	20.1	20.9	20.4	21.1	21.4	20.1	21.0	20.4	21.2	21.4
	8H	20.0	20.8	20.3	21.1	21.3	20.1	20.9	20.4	21.1	21.4
	12H	20.0	20.7	20.3	21.0	21.3	20.0	20.8	20.4	21.1	21.3
4H	2H	20.1	21.0	20.4	21.3	21.5	20.2	21.1	20.5	21.3	21.6
	3H	20.0	20.7	20.3	21.0	21.3	20.0	20.8	20.4	21.1	21.4
	4H	19.9	20.6	20.2	20.9	21.2	20.0	20.6	20.3	20.9	21.3
	6H	19.8	20.4	20.2	20.7	21.1	19.9	20.5	20.2	20.8	21.1
	8H	19.7	20.3	20.1	20.7	21.0	19.8	20.4	20.2	20.7	21.1
	12H	19.7	20.2	20.1	20.6	21.0	19.8	20.3	20.2	20.6	21.0
8H	4H	19.7	20.3	20.1	20.7	21.0	19.8	20.4	20.2	20.7	21.1
	6H	19.6	20.1	20.1	20.5	20.9	19.7	20.2	20.1	20.6	21.0
	8H	19.6	20.0	20.0	20.4	20.9	19.7	20.1	20.1	20.5	20.9
	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	20.6	21.0
	6H	19.6	20.0	20.0	20.4	20.9	19.7	20.1	20.1	20.5	20.9
	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 / -13.1	+ 3.2 / -13.6
1.5H	+ 3.1 / -11.9	+ 3.0 / -12.6
2.0H	+ 7.6 / -10.9	+ 8.1 / -11.6

CIE Pub.117, 3523 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.4)

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γInterval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
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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	81	73	69	80	73	69	79	73	69	64
0.80	89	82	78	89	82	78	87	81	77	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	92	88
2.00	107	102	99	105	101	98	103	99	96	91
2.50	109	104	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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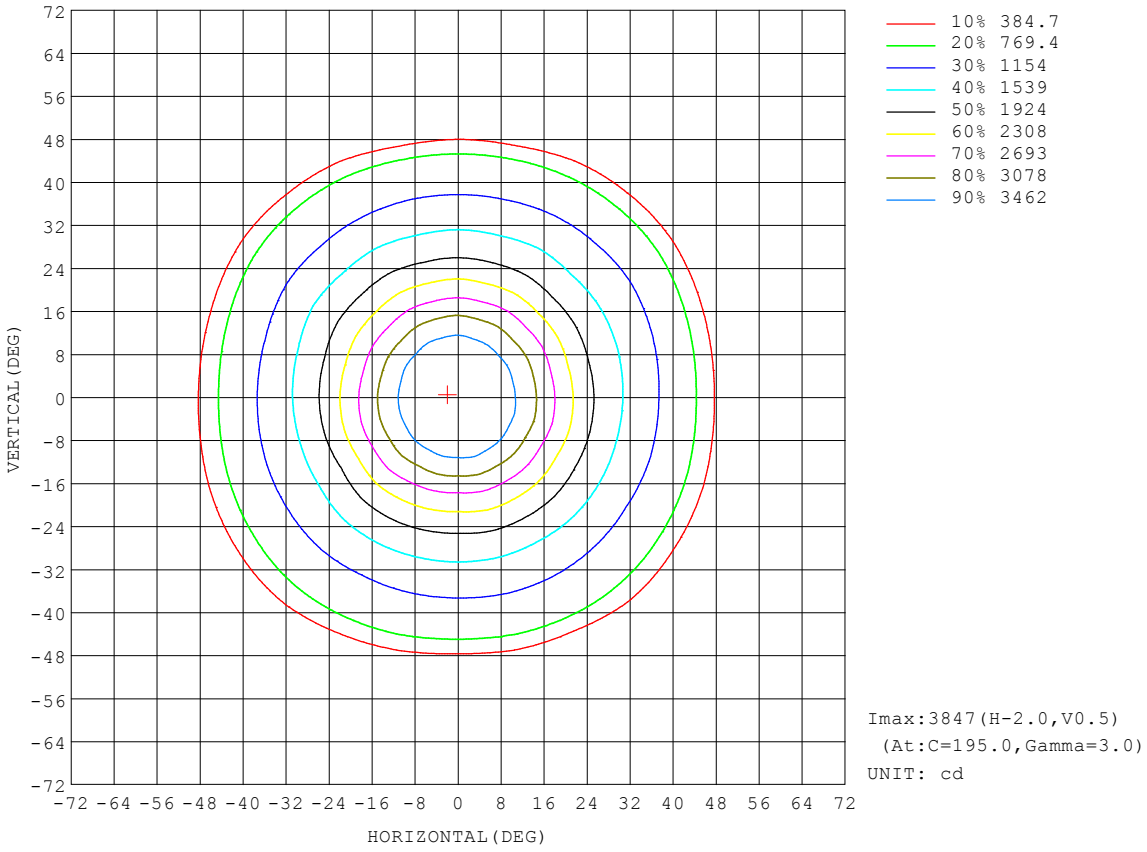

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AAI CURVES

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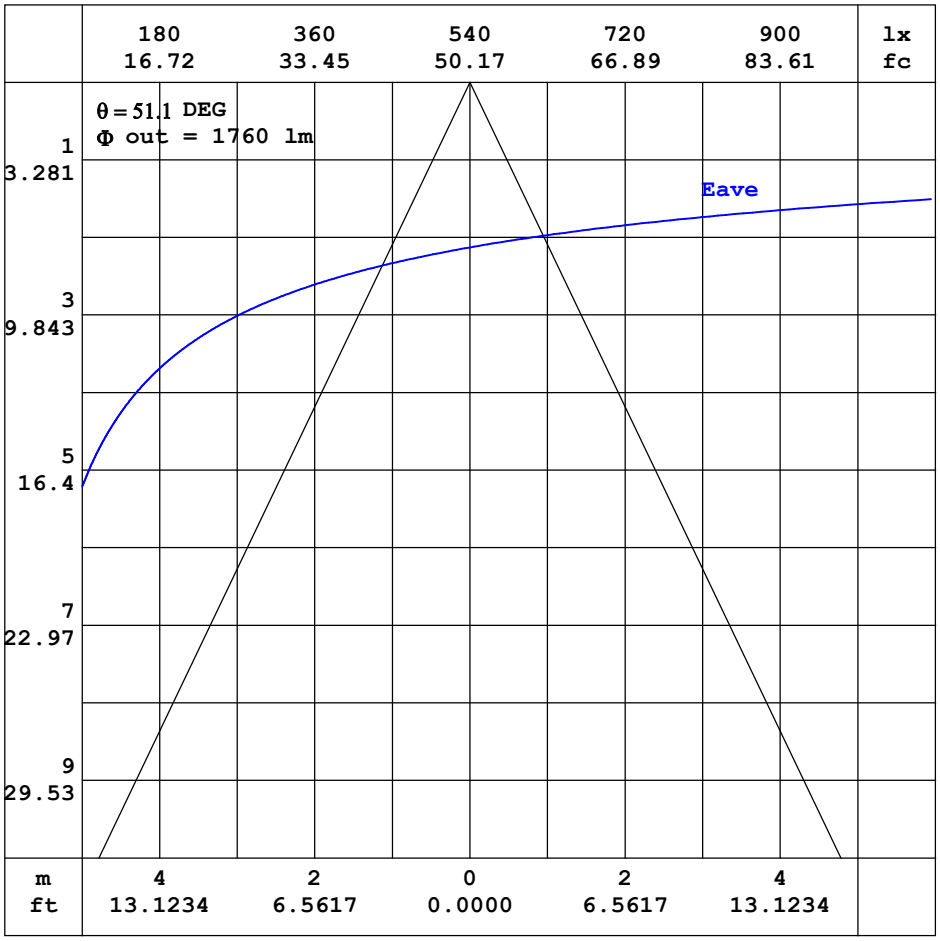

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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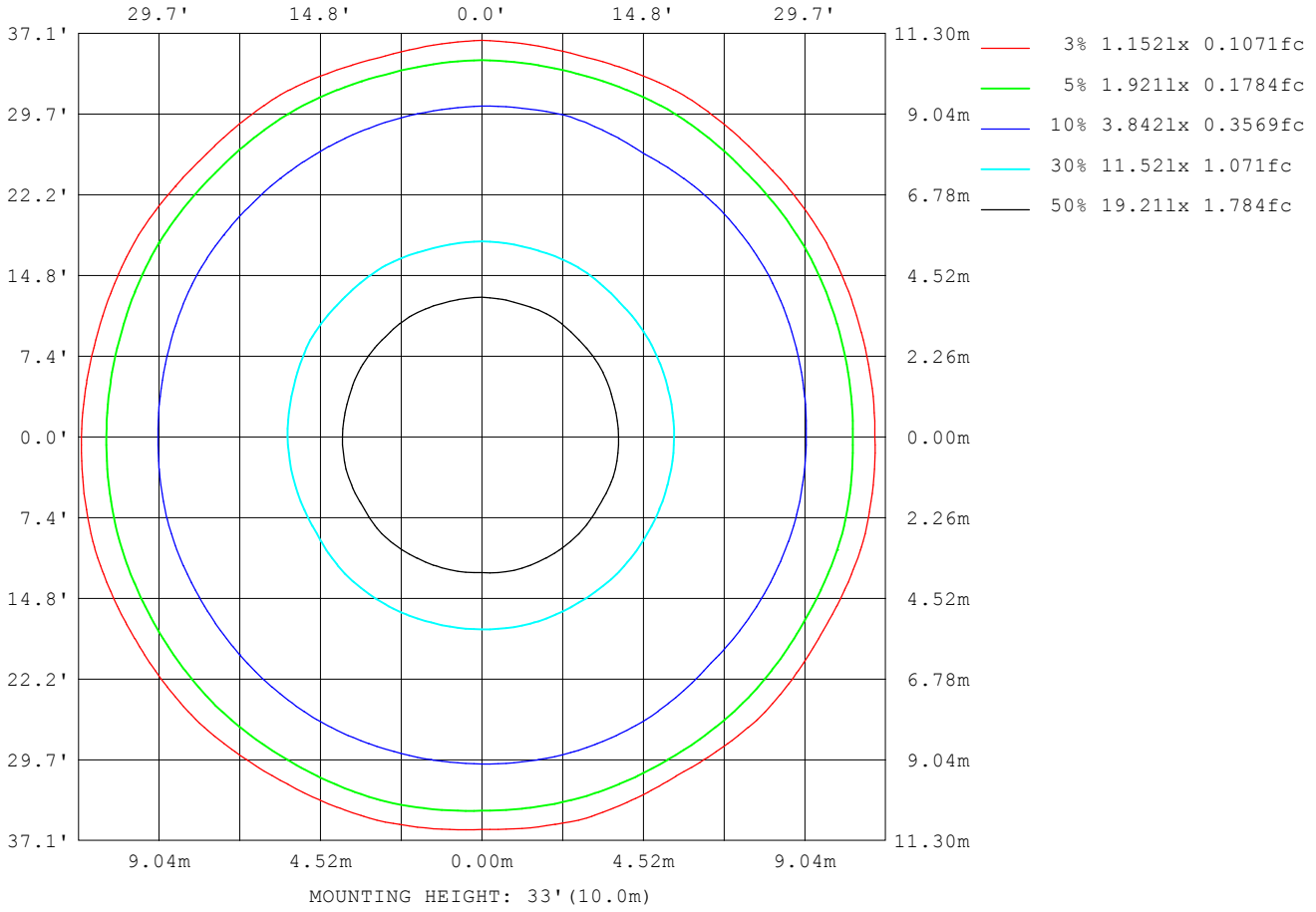

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LED Avg.L Report

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Name: HCP-81322138 5500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

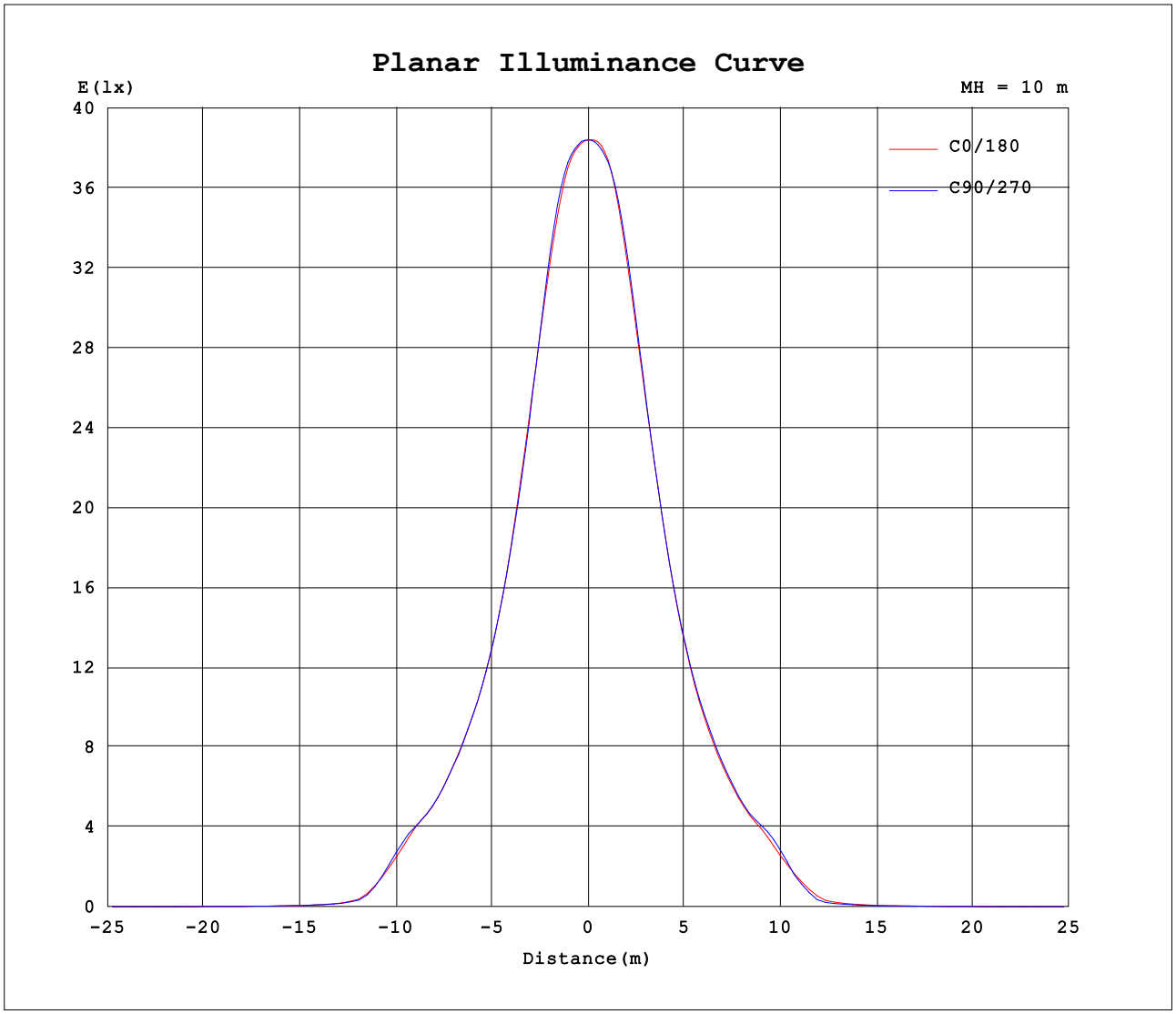
AvgL	cd/m2
L_0~180(65)av	5486
L_0~180(75)av	2541
L_0~180(85)av	971
L_90~270(65)av	5029
L_90~270(75)av	2006
L_90~270(85)av	637
L_45(65)av	5519
L_45(75)av	2408
L_45(85)av	734

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:219.47V I:0.1987A P:43.452W PF:0.9962 Freq:49.99Hz Lamp Flux:3522.59x1 lm		
Name: HCP-81322138 5500K	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	3841	3841	3842	3843	3842	3843	3841	3842	3842	3842	3842	3841	3841	3841	3842	3843	3842	3843	3841
5	3792	3797	3798	3800	3801	3808	3810	3817	3819	3825	3819	3824	3824	3820	3822	3815	3815	3806	3807
10	3517	3540	3533	3561	3563	3588	3571	3585	3565	3580	3557	3564	3560	3553	3579	3571	3599	3584	3594
15	3032	3050	3025	3047	3032	3056	3030	3050	3041	3084	3065	3082	3076	3057	3075	3068	3102	3088	3106
20	2461	2478	2439	2468	2463	2474	2435	2460	2481	2524	2497	2530	2525	2501	2523	2507	2539	2511	2528
25	1948	1949	1941	1968	1962	1976	1948	1962	1981	1997	1945	1989	2003	1996	2026	2010	2030	2000	2011
30	1577	1568	1565	1568	1561	1580	1577	1576	1585	1589	1558	1571	1593	1602	1642	1614	1631	1601	1615
35	1294	1285	1259	1266	1271	1278	1291	1278	1268	1278	1274	1272	1285	1281	1316	1282	1301	1304	1314
40	1033	1019	1007	998	1033	1045	1037	1031	1028	1026	1022	1034	1026	1021	1042	1030	1029	1042	1044
45	701	723	711	732	752	783	767	789	778	772	751	749	727	743	771	769	790	794	805
50	146	156	141	142	158	128	129	155	168	230	210	238	204	177	170	146	143	125	133
55	46.4	52.3	51.9	54.0	48.0	46.7	47.9	46.9	50.2	56.3	59.2	60.1	59.4	55.2	54.5	52.4	51.2	46.6	46.1
60	26.3	28.5	29.0	29.4	27.1	26.3	26.2	25.9	26.1	28.5	28.6	29.0	29.0	28.0	28.6	28.6	28.1	26.2	25.7
65	16.1	17.2	17.4	17.6	16.2	15.3	15.2	15.0	15.4	16.9	17.1	17.2	17.5	17.1	17.4	17.5	17.1	15.8	15.6
70	9.33	9.68	9.59	9.65	8.75	8.01	7.83	7.87	8.30	9.26	9.49	9.61	9.80	9.68	9.88	9.83	9.29	8.47	8.51
75	4.65	4.64	4.30	4.48	3.95	3.67	3.53	3.61	3.79	4.47	4.65	4.79	4.87	4.76	4.78	4.68	4.43	3.98	3.99
80	1.82	1.73	1.60	1.61	1.43	1.34	1.31	1.34	1.41	1.64	1.83	1.97	2.02	1.92	1.83	1.83	1.69	1.58	1.54
85	0.58	0.52	0.48	0.39	0.40	0.33	0.38	0.36	0.41	0.44	0.55	0.58	0.64	0.63	0.53	0.51	0.45	0.45	0.42
90	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.18	0.17	0.20	0.20	0.20	0.19	0.19	0.19	0.19

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.47V I:0.1987A P:43.452W PF:0.9962 Freq:49.99Hz Lamp Flux:3522.59x1 lm		
Name: HCP-81322138 5500K	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	3842	3842	3842	3842	3841
5	3800	3800	3793	3795	3791
10	3564	3553	3531	3531	3514
15	3072	3083	3043	3052	3022
20	2497	2515	2471	2482	2440
25	1991	1999	1955	1958	1935
30	1598	1612	1576	1590	1584
35	1297	1323	1296	1319	1313
40	1056	1029	1060	1069	1055
45	792	772	747	748	720
50	127	150	144	154	143
55	42.1	45.4	43.3	43.1	41.9
60	24.4	25.4	25.0	24.3	24.4
65	15.0	15.6	15.5	15.3	15.3
70	8.17	8.68	9.06	9.11	9.09
75	3.86	4.14	4.41	4.62	4.62
80	1.54	1.62	1.75	1.84	1.85
85	0.44	0.44	0.51	0.53	0.60
90	0.19	0.19	0.19	0.19	0.19

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: