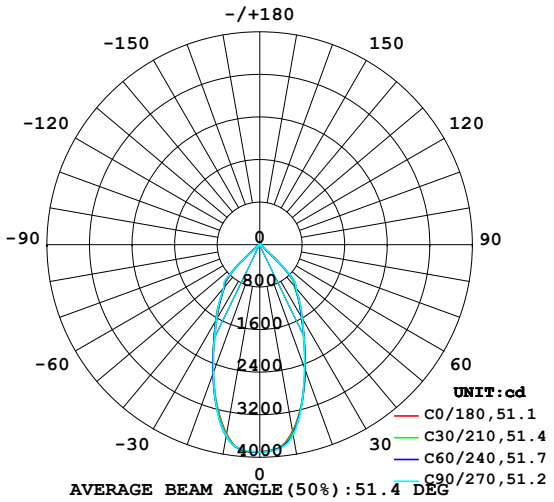
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.47V I:0.1984A P:43.365W PF:0.9961 Freq:49.99Hz Lamp Flux:3577.78x1 lm		
Name: HCP-81322138 6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

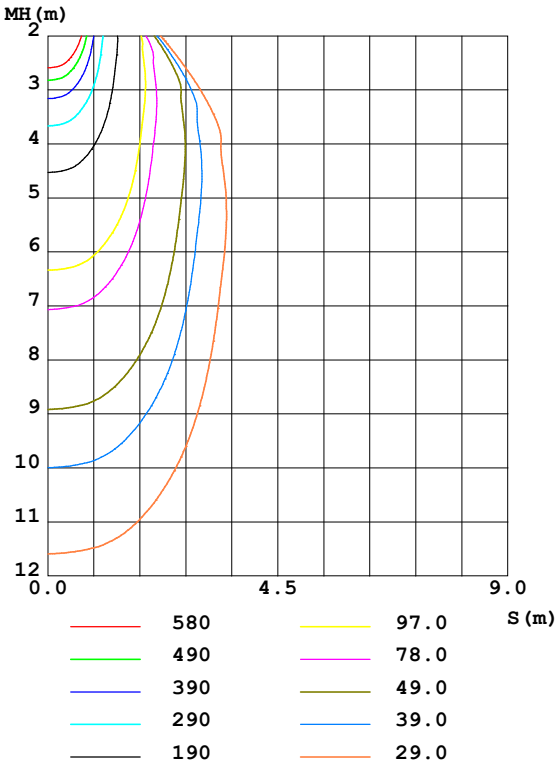
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 82.50 lm/W	
MODEL	HCP-81322138	Imax(cd)	3904	S/MH(C0/180)	0.78
NOMINAL POWER(W)	45	LOR(%)	100.0	S/MH(C90/270)	0.78
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	3577.8	η UP,DN(C0-180)	0.0,49.7
NOMINAL FLUX(lm)	3577.78	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.3
LAMPS INSIDE	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	3565	3610	3625	3631	3612	3627	3651	3581	0- 10	361.3	361.3	10.1,10.1
20	2497	2501	2470	2565	2565	2547	2563	2510	10- 20	860.2	1221	34.1,34.1
30	1602	1582	1597	1611	1616	1641	1638	1599	20- 30	926.0	2147	60,60
40	1050	1006	1060	1039	1040	1043	1058	1080	30- 40	816.8	2964	82.9,82.9
50	152.1	143.9	158.6	231.6	232.9	146.7	131.3	147.7	40- 50	537.0	3501	97.9,97.9
60	26.71	29.49	25.18	27.60	28.68	28.33	25.67	25.10	50- 60	54.32	3556	99.4,99.4
70	9.462	9.756	7.882	9.281	9.902	9.878	8.573	9.134	60- 70	16.57	3572	99.8,99.8
80	1.851	1.613	1.328	1.682	2.067	1.871	1.547	1.771	70- 80	4.977	3577	100,100
90	0.1781	0.1737	0.1650	0.1477	0.2041	0.1954	0.1911	0.1911	80- 90	0.7069	3578	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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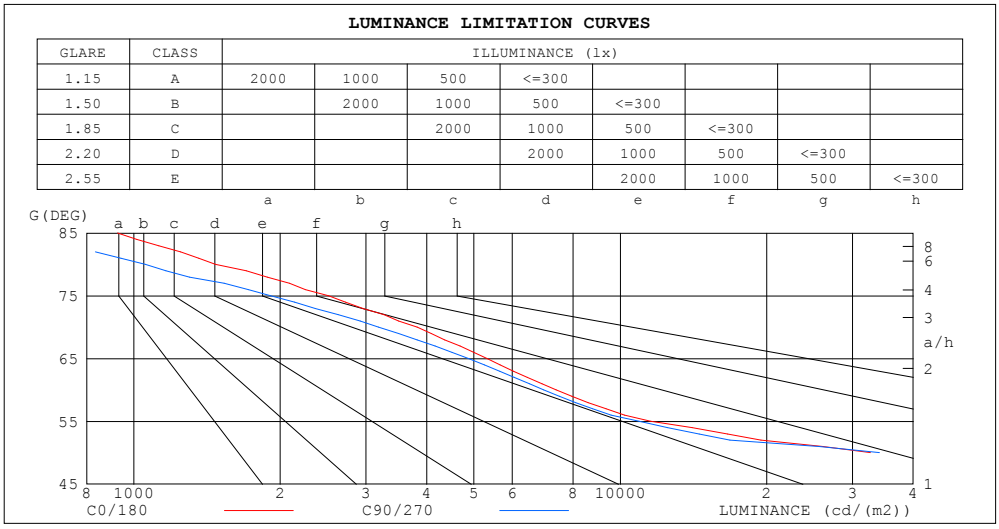
LUMINANCE LIMITATION CURVES

Test:U:219.47V I:0.1984A P:43.365W PF:0.9961 Freq:49.99Hz Lamp Flux:3577.78x1 lm		
Name: HCP-81322138 6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	926	602
80	1473	1056
75	2513	1910
70	3822	3184
65	5318	4872
60	7380	6957
55	11533	10926
50	32687	34097
45	140320	155250

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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Name: HCP-81322138 6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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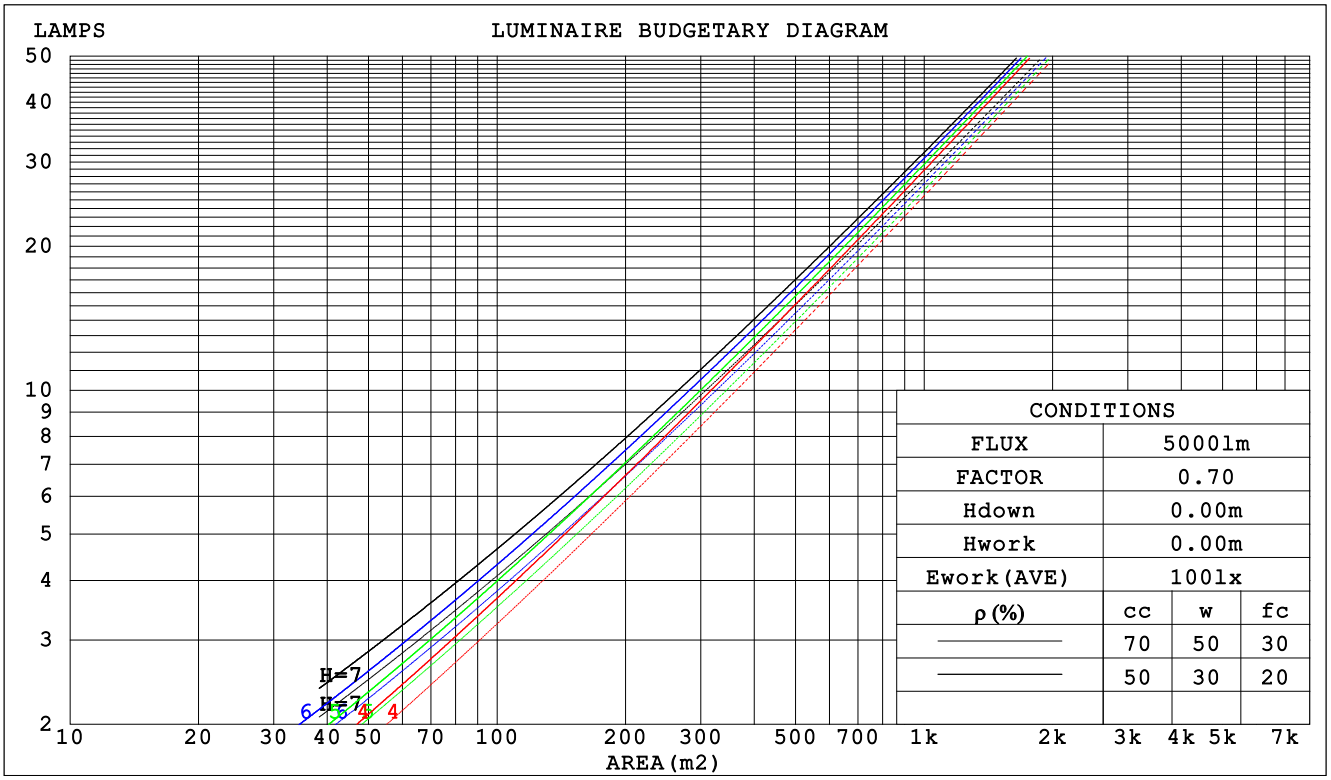
ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.10	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	.76	.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	.64	.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	.64	.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	.177	.097	.030	.166	.092	.029	.156	.087	.027	.147	.083	.026	
3.0	.175	.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	.073	.022	
6.0	.152	.076	.022	.148	.075	.022	.142	.073	.021	.137	.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	.118	.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	.137	.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	

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Operators:DAMIN
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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:

UGR(Unified Glare Rating) Table

Test:U:219.47V I:0.1984A P:43.365W PF:0.9961 Freq:49.99Hz Lamp Flux:3577.78x1 lm		
Name: HCP-81322138 6000K	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	21.5	20.7	21.6	21.8	20.5	21.5	20.7	21.7	21.8
	3H	20.3	21.2	20.5	21.4	21.6	20.3	21.2	20.6	21.4	21.7
	4H	20.2	21.1	20.4	21.3	21.5	20.2	21.1	20.5	21.3	21.6
	6H	20.1	20.9	20.4	21.2	21.4	20.1	20.9	20.4	21.2	21.4
	8H	20.0	20.8	20.3	21.1	21.4	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	20.3	21.1	21.3
4H	2H	20.2	21.1	20.4	21.3	21.5	20.2	21.1	20.5	21.3	21.6
	3H	20.0	20.8	20.3	21.0	21.3	20.0	20.8	20.4	21.1	21.4
	4H	19.9	20.6	20.3	20.9	21.2	19.9	20.6	20.3	20.9	21.3
	6H	19.8	20.4	20.2	20.8	21.1	19.9	20.5	20.2	20.8	21.1
	8H	19.8	20.3	20.2	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	19.8	20.3	20.2	20.7	21.0	19.8	20.4	20.2	20.7	21.1
	6H	19.7	20.1	20.1	20.5	20.9	19.7	20.2	20.1	20.6	21.0
	8H	19.6	20.0	20.1	20.4	20.9	19.7	20.1	20.1	20.5	20.9
	12H	19.6	19.9	20.0	20.4	20.8	19.6	19.9	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	20.1	20.4	20.9	19.7	20.1	20.1	20.5	20.9
	8H	19.6	19.9	20.0	20.4	20.8	19.6	19.9	20.1	20.4	20.9

Variations with the observer position at spacings:		
S = 1.0H	+ 3.2 / -13.1	+ 3.3 / -13.9
1.5H	+ 3.0 / -11.9	+ 2.9 / -12.8
2.0H	+ 7.6 / -11.0	+ 8.2 / -11.7

CIE Pub.117, 3578 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.4)

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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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Name: HCP-81322138 6000K	TYPE:	WEIGHT:
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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	68	64
0.80	89	82	78	89	82	78	87	81	77	73
1.00	95	89	84	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	104	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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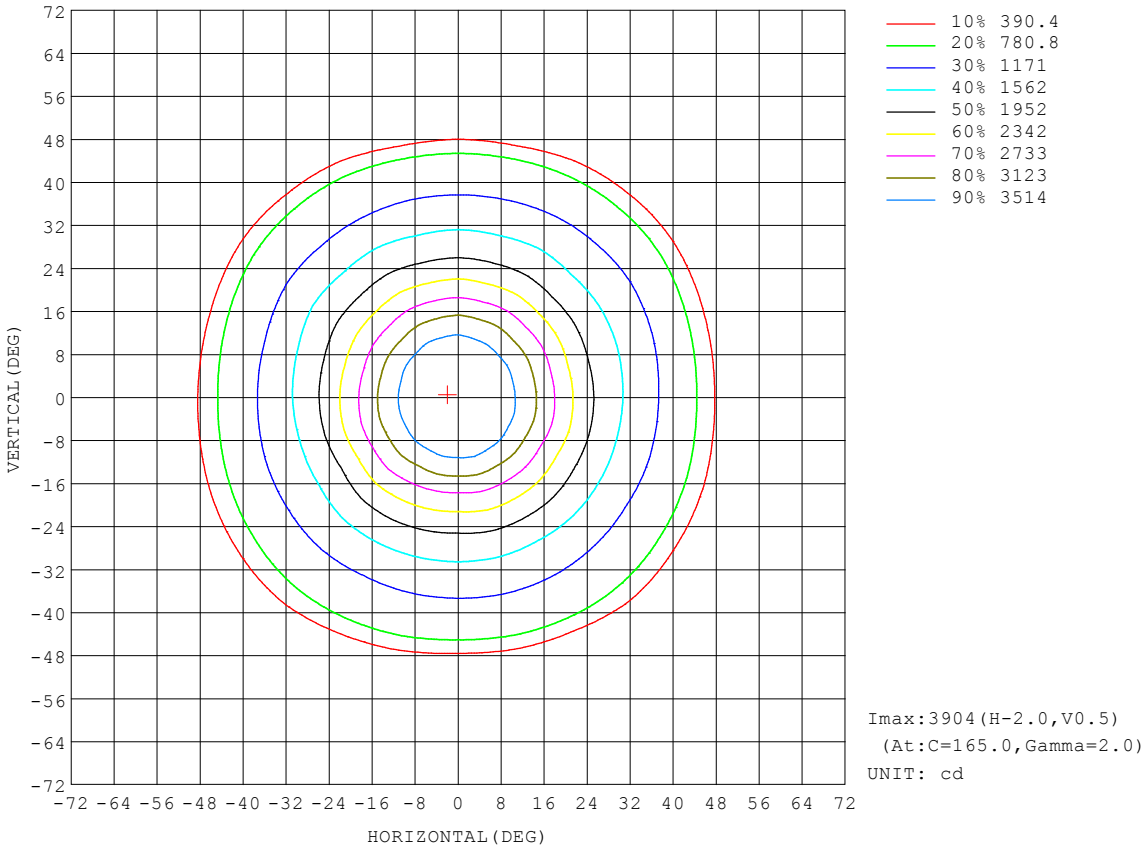

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AAI CURVES

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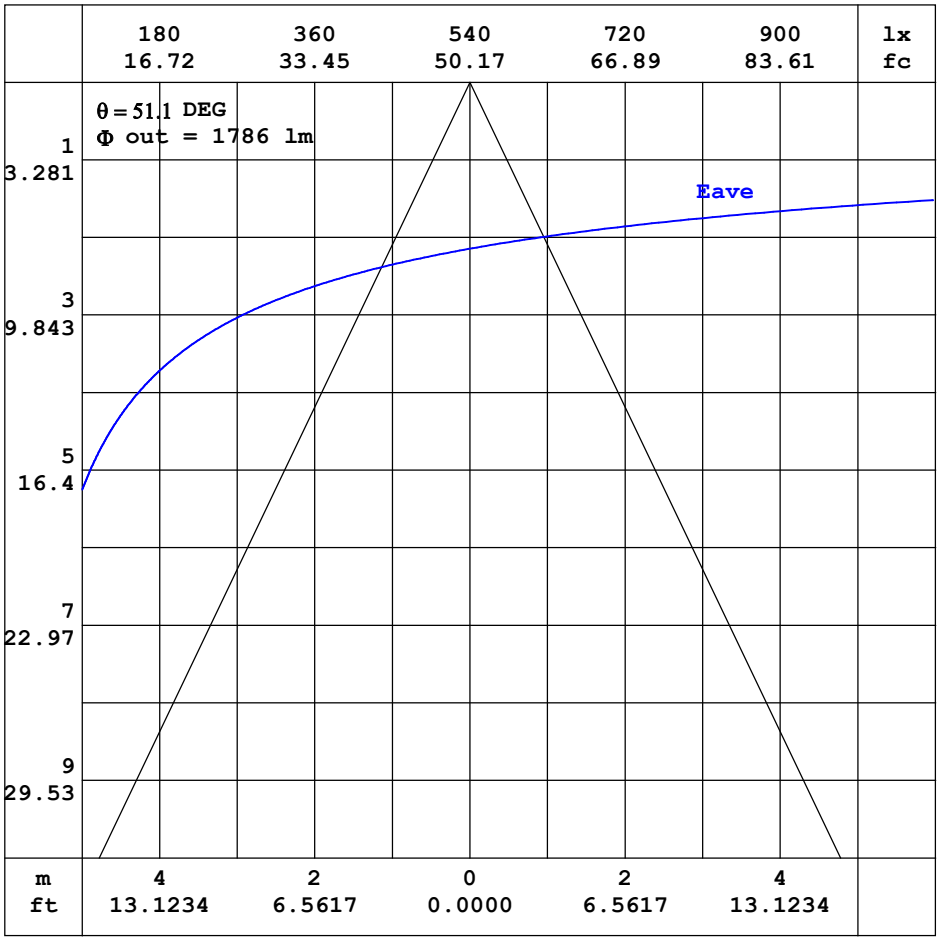

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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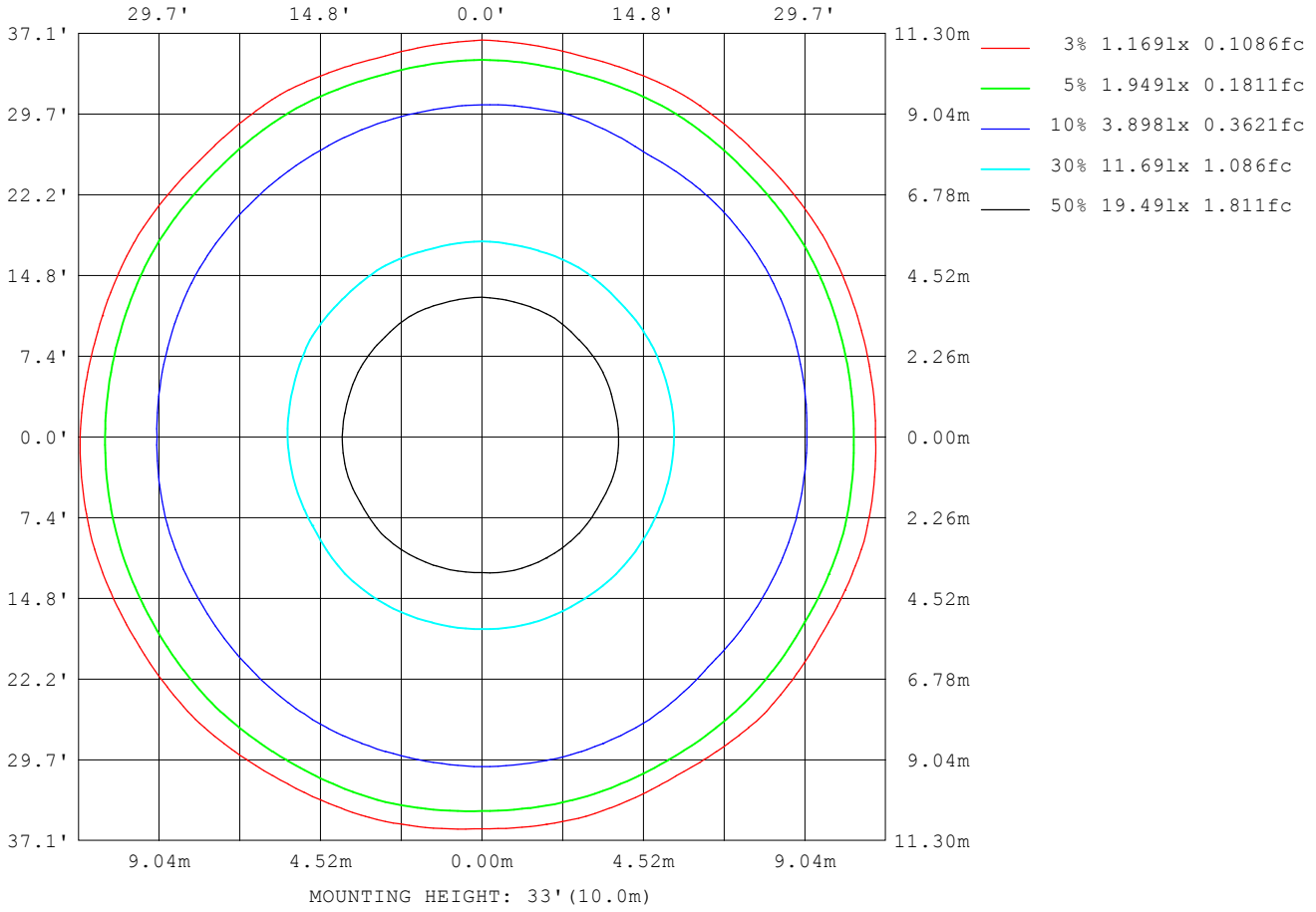

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LED Avg.L Report

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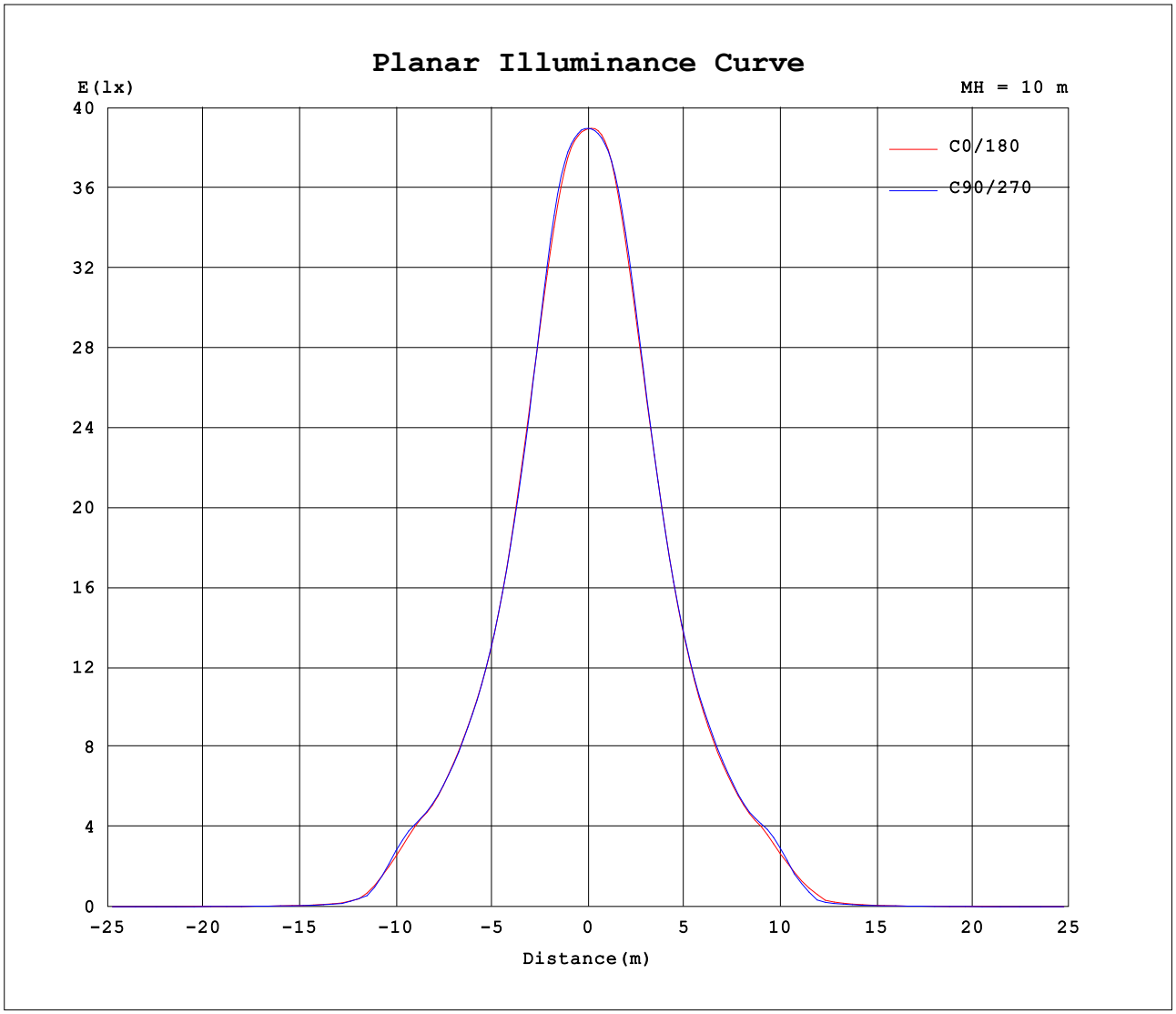
AvgL	cd/m2
L_0~180(65)av	5499
L_0~180(75)av	2581
L_0~180(85)av	975
L_90~270(65)av	4988
L_90~270(75)av	2031
L_90~270(85)av	637
L_45(65)av	5485
L_45(75)av	2438
L_45(85)av	735

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:0.1984A P:43.365W PF:0.9961 Freq:49.99Hz Lamp Flux:3577.78x1 lm		
Name: HCP-81322138 6000K	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	3897	3899	3898	3900	3898	3899	3899	3900	3899	3898	3900	3898	3897	3899	3898	3900	3898	3899	3899
5	3848	3851	3850	3855	3857	3863	3866	3871	3874	3880	3874	3880	3880	3874	3878	3872	3871	3863	3865
10	3565	3589	3580	3610	3615	3640	3625	3636	3617	3631	3608	3616	3612	3606	3633	3627	3656	3642	3651
15	3075	3093	3065	3089	3075	3100	3075	3094	3087	3130	3113	3130	3122	3108	3126	3118	3154	3139	3156
20	2497	2511	2469	2501	2500	2510	2470	2494	2519	2565	2538	2572	2565	2543	2563	2547	2580	2550	2563
25	1975	1976	1964	1993	1991	2007	1975	1990	2012	2030	1972	2020	2033	2028	2060	2042	2063	2029	2039
30	1602	1587	1580	1582	1577	1599	1597	1597	1604	1611	1579	1592	1616	1630	1670	1641	1655	1623	1638
35	1309	1299	1271	1276	1280	1295	1298	1297	1278	1296	1294	1291	1303	1307	1339	1305	1319	1322	1333
40	1050	1030	1018	1006	1044	1063	1060	1049	1045	1039	1035	1047	1040	1034	1057	1043	1038	1052	1058
45	718	745	734	761	780	814	795	820	808	799	776	773	752	770	799	796	818	824	831
50	152	163	146	144	155	123	159	148	163	232	210	242	233	178	171	147	142	165	131
55	47.9	53.7	53.2	54.7	47.6	44.9	45.4	44.8	48.1	54.5	57.9	59.0	59.1	54.3	53.6	52.1	51.2	46.7	46.0
60	26.7	28.9	29.4	29.5	26.8	25.6	25.2	25.0	25.2	27.6	28.0	28.4	28.7	27.6	28.2	28.3	28.0	26.2	25.7
65	16.3	17.4	17.5	17.6	16.1	15.2	14.9	14.9	15.1	16.6	16.8	17.0	17.4	17.0	17.3	17.4	17.0	15.8	15.6
70	9.46	9.82	9.72	9.76	8.82	8.05	7.88	7.92	8.34	9.28	9.52	9.67	9.90	9.74	9.93	9.88	9.35	8.54	8.57
75	4.71	4.69	4.36	4.54	4.00	3.72	3.58	3.67	3.87	4.53	4.72	4.86	4.96	4.84	4.86	4.74	4.49	4.04	4.03
80	1.85	1.76	1.62	1.61	1.45	1.34	1.33	1.34	1.44	1.68	1.88	2.02	2.07	1.97	1.88	1.87	1.72	1.60	1.55
85	0.58	0.52	0.48	0.39	0.40	0.34	0.38	0.36	0.41	0.45	0.55	0.59	0.65	0.64	0.54	0.51	0.45	0.45	0.42
90	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.14	0.15	0.17	0.17	0.20	0.21	0.20	0.20	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:0.1984A P:43.365W PF:0.9961 Freq:49.99Hz Lamp Flux:3577.78x1 lm		
Name: HCP-81322138 6000K	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	3900	3899	3898	3900	3898
5	3859	3859	3851	3851	3848
10	3619	3608	3581	3581	3564
15	3120	3130	3089	3097	3065
20	2535	2555	2510	2521	2475
25	2020	2030	1985	1989	1962
30	1621	1635	1599	1615	1610
35	1316	1340	1315	1338	1333
40	1075	1047	1080	1087	1075
45	817	795	767	767	738
50	126	151	148	158	149
55	42.3	45.7	43.9	43.8	42.9
60	24.4	25.4	25.1	24.6	24.7
65	15.0	15.6	15.6	15.5	15.5
70	8.24	8.75	9.13	9.19	9.19
75	3.89	4.18	4.45	4.67	4.69
80	1.55	1.62	1.77	1.87	1.87
85	0.44	0.43	0.50	0.53	0.59
90	0.19	0.19	0.19	0.19	0.20

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: