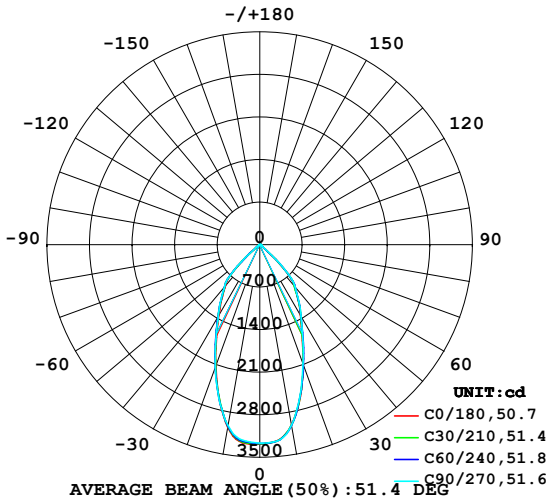
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.43V I:0.1994A P:43.589W PF:0.9963 Freq:49.99Hz Lamp Flux:2978.74x1 lm		
Name: HCP-81322138 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

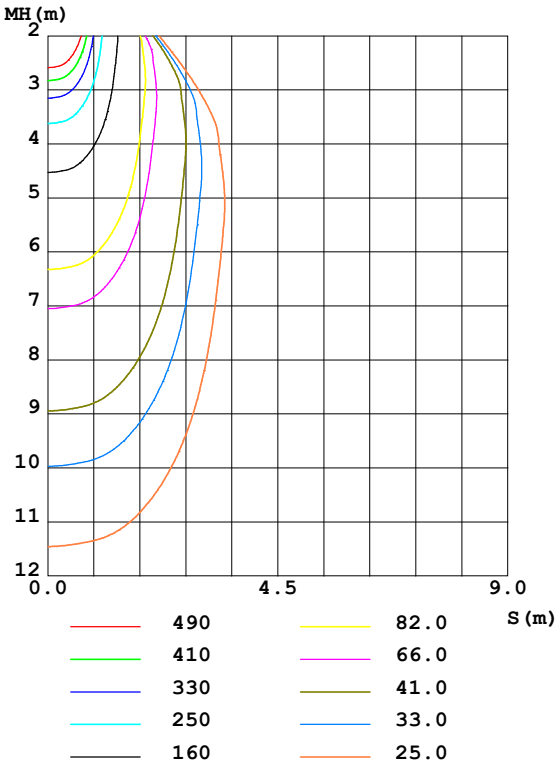
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 68.34 lm/W	
MODEL	HCP-81322138	Imax(cd)	3287	S/MH(C0/180)	0.77
NOMINAL POWER(W)	45	LOR(%)	100.0	S/MH(C90/270)	0.78
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2978.7	η UP,DN(C0-180)	0.0,49.9
NOMINAL FLUX(lm)	2978.74	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.1
LAMPS INSIDE	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	3011	3031	3019	3037	3054	3019	3024	2986	0- 10	302.7	302.7	10.2,10.2
20	2087	2117	2089	2120	2124	2118	2144	2079	10- 20	716.9	1020	34.2,34.2
30	1339	1368	1364	1349	1352	1367	1375	1331	20- 30	774.9	1794	60.2,60.2
40	884.8	890.1	905.2	887.5	883.2	894.9	903.9	889.7	30- 40	691.2	2486	83.4,83.4
50	119.6	119.2	129.3	162.6	139.4	125.5	136.6	131.9	40- 50	430.2	2916	97.9,97.9
60	21.00	23.98	23.23	25.10	23.91	24.22	21.59	20.70	50- 60	44.22	2960	99.4,99.4
70	7.528	7.917	6.543	7.757	7.984	8.318	7.168	7.556	60- 70	14.04	2974	99.8,99.8
80	1.433	1.266	1.062	1.318	1.517	1.450	1.274	1.449	70- 80	4.023	2978	100,100
90	0.1390	0.1390	0.1259	0.1303	0.1650	0.1346	0.1564	0.1607	80- 90	0.5759	2979	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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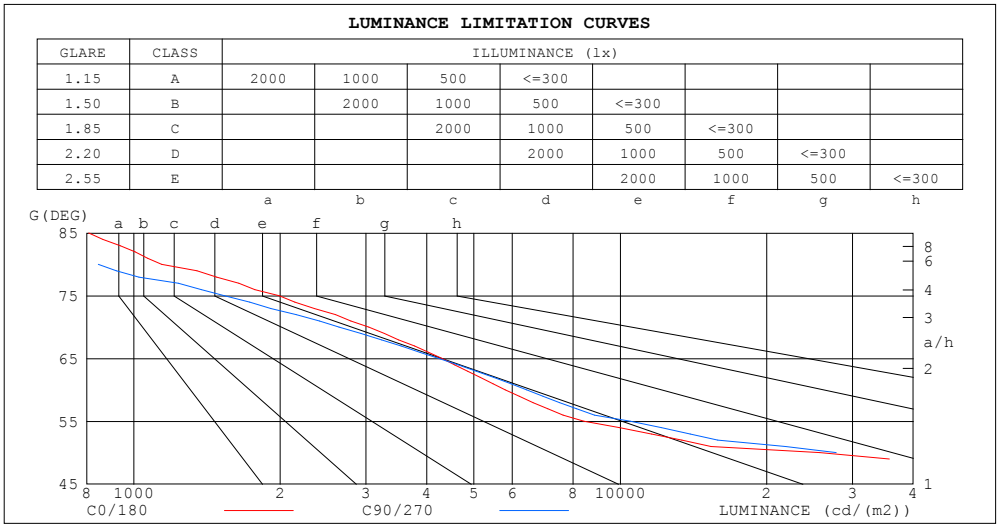
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:219.43V I:0.1994A P:43.589W PF:0.9963 Freq:49.99Hz Lamp Flux:2978.74x1 lm		
Name: HCP-81322138 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	808	512
80	1141	845
75	1990	1536
70	3041	2643
65	4304	4241
60	5802	6419
55	8417	10493
50	25702	27787
45	111732	114690

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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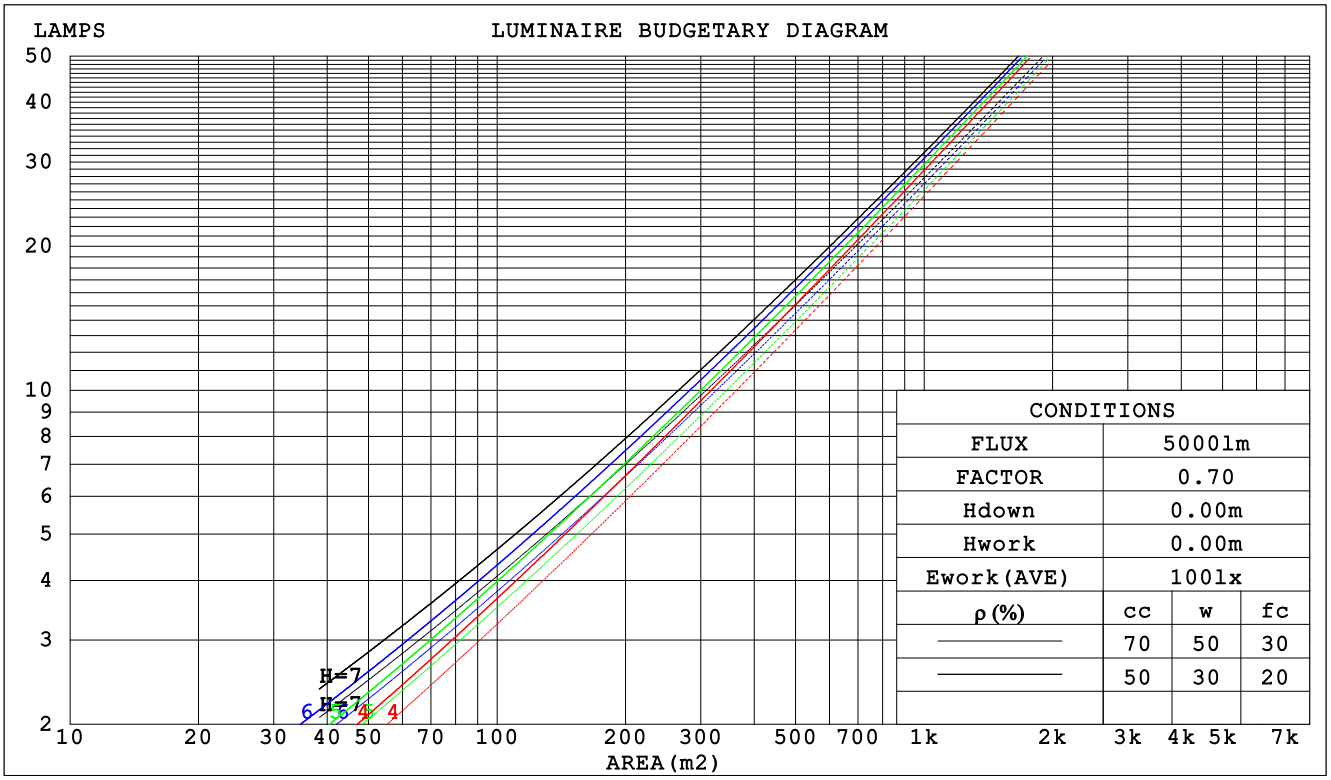
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

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



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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	.181	.103	.033	.169	.097	.031	.157	.091	.029	.146	.085	.027	
2.0	.182	.100	.031	.176	.097	.030	.165	.092	.029	.156	.087	.027	.146	.083	.026	
3.0	.174	.093	.028	.169	.091	.027	.160	.087	.026	.151	.083	.025	.144	.080	.025	
4.0	.166	.086	.025	.162	.085	.025	.154	.082	.024	.147	.079	.024	.140	.076	.023	
5.0	.159	.081	.023	.155	.080	.023	.148	.077	.023	.141	.075	.022	.135	.072	.022	
6.0	.151	.076	.022	.148	.075	.022	.142	.073	.021	.136	.071	.021	.131	.069	.020	
7.0	.145	.071	.020	.142	.071	.020	.136	.069	.020	.131	.067	.020	.126	.066	.019	
8.0	.138	.067	.019	.136	.067	.019	.131	.065	.019	.126	.064	.018	.122	.062	.018	
9.0	.132	.064	.018	.130	.063	.018	.125	.062	.018	.121	.061	.017	.117	.060	.017	
10.0	.126	.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	.092	.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	.080	.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	.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	.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:219.43V I:0.1994A P:43.589W PF:0.9963 Freq:49.99Hz Lamp Flux:2978.74x1 lm		
Name: HCP-81322138 3000K	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	20.6	21.6	20.8	21.8	21.9
3H	20.2	21.2	20.5	21.4	21.6	20.4	21.3	20.7	21.5	21.7
4H	20.1	21.0	20.4	21.3	21.5	20.3	21.2	20.6	21.4	21.6
6H	20.0	20.9	20.4	21.1	21.4	20.2	21.0	20.5	21.3	21.5
8H	20.0	20.8	20.3	21.1	21.3	20.2	21.0	20.5	21.2	21.5
12H	20.0	20.7	20.3	21.0	21.3	20.1	20.9	20.4	21.2	21.4
4H 2H	20.1	21.0	20.4	21.3	21.5	20.3	21.2	20.6	21.4	21.6
3H	20.0	20.7	20.3	21.0	21.3	20.1	20.9	20.5	21.2	21.4
4H	19.9	20.6	20.2	20.9	21.2	20.0	20.7	20.4	21.0	21.3
6H	19.8	20.4	20.2	20.7	21.1	19.9	20.5	20.3	20.9	21.2
8H	19.7	20.3	20.1	20.7	21.0	19.9	20.5	20.3	20.8	21.2
12H	19.7	20.2	20.1	20.6	21.0	19.8	20.4	20.3	20.7	21.1
8H 4H	19.7	20.3	20.1	20.7	21.0	19.9	20.5	20.3	20.8	21.2
6H	19.6	20.1	20.1	20.5	20.9	19.8	20.3	20.2	20.7	21.1
8H	19.6	20.0	20.0	20.4	20.9	19.7	20.2	20.2	20.6	21.0
12H	19.5	19.9	20.0	20.3	20.8	19.7	20.0	20.2	20.5	21.0
12H 4H	19.7	20.2	20.1	20.6	21.0	19.8	20.4	20.3	20.7	21.1
6H	19.6	20.0	20.0	20.4	20.9	19.7	20.2	20.2	20.6	21.0
8H	19.5	19.9	20.0	20.3	20.8	19.7	20.0	20.2	20.5	21.0

Variations with the observer position at spacings:		
S = 1.0H	+ 3.1 / -13.7	+ 3.1 / -13.6
1.5H	+ 3.3 / -12.5	+ 3.3 / -12.7
2.0H	+ 7.8 / -10.6	+ 7.8 / -11.1

CIE Pub.117, 2979 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.8)

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C Interval: 15.0DEG
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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:

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	74	69	81	73	69	80	73	69	65
0.80	90	83	78	89	82	78	88	82	78	73
1.00	95	89	85	95	89	85	93	89	84	80
1.25	100	94	90	99	94	90	97	93	89	85
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	101	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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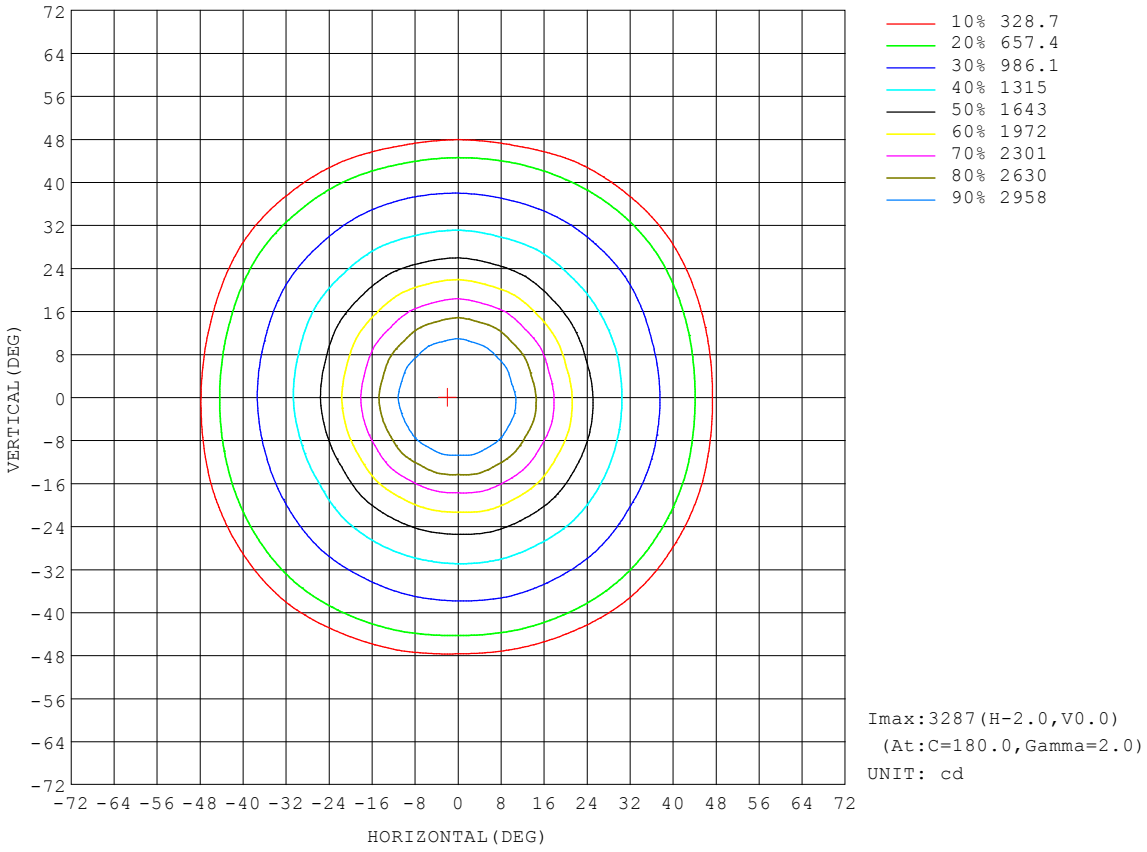

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AAI CURVES

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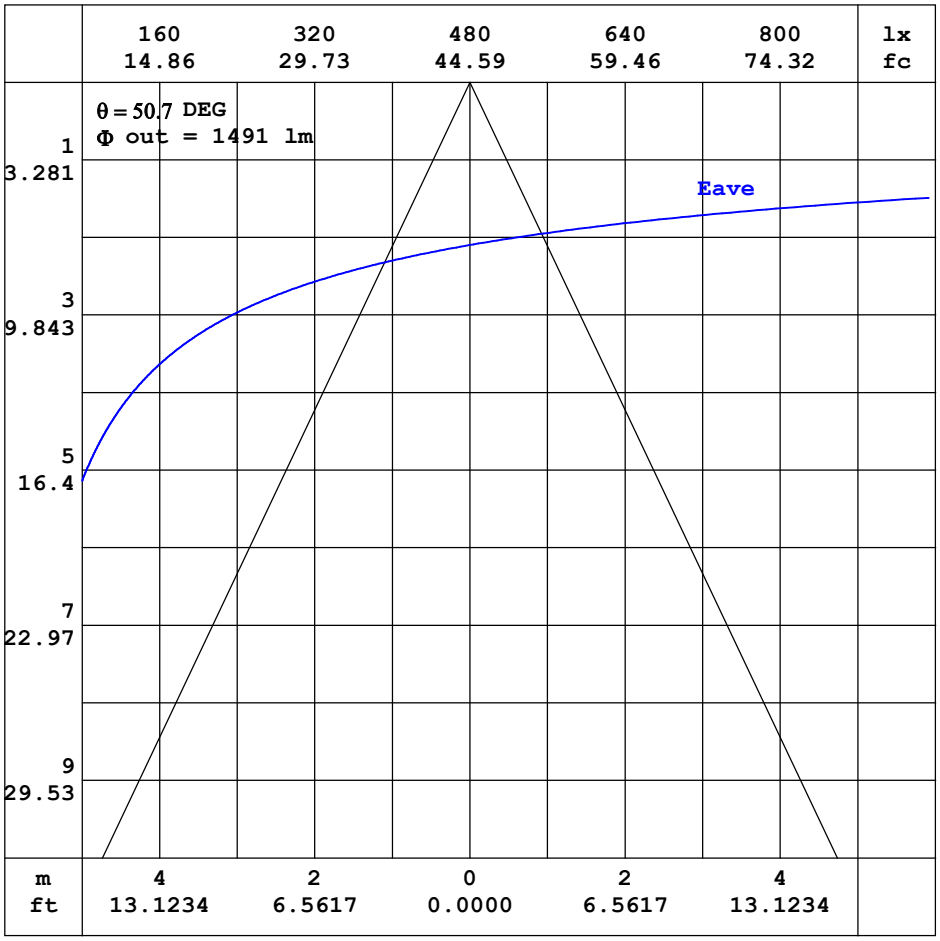

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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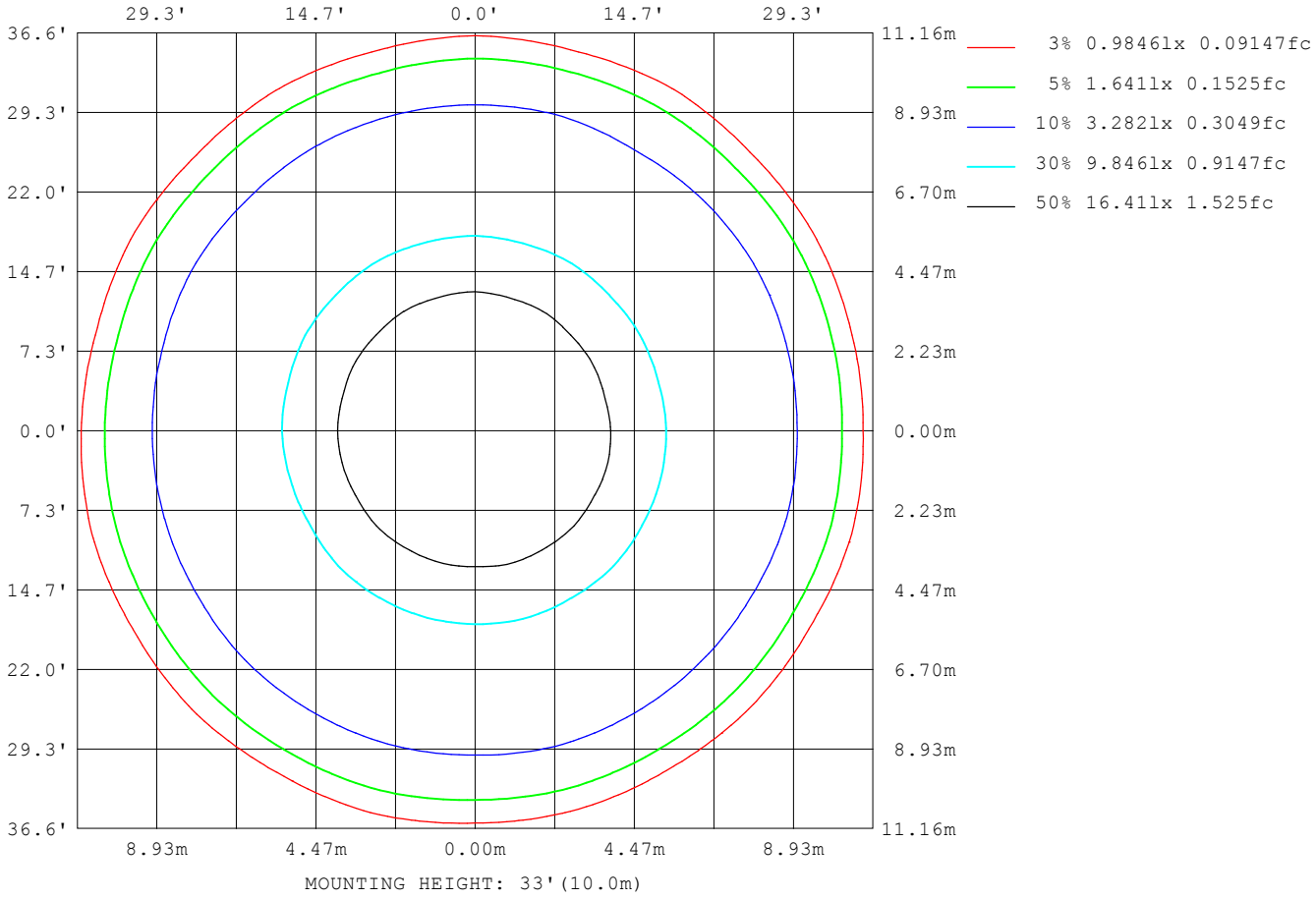

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LED Avg.L Report

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SPEC.:	DIM.:	SERIAL No.:
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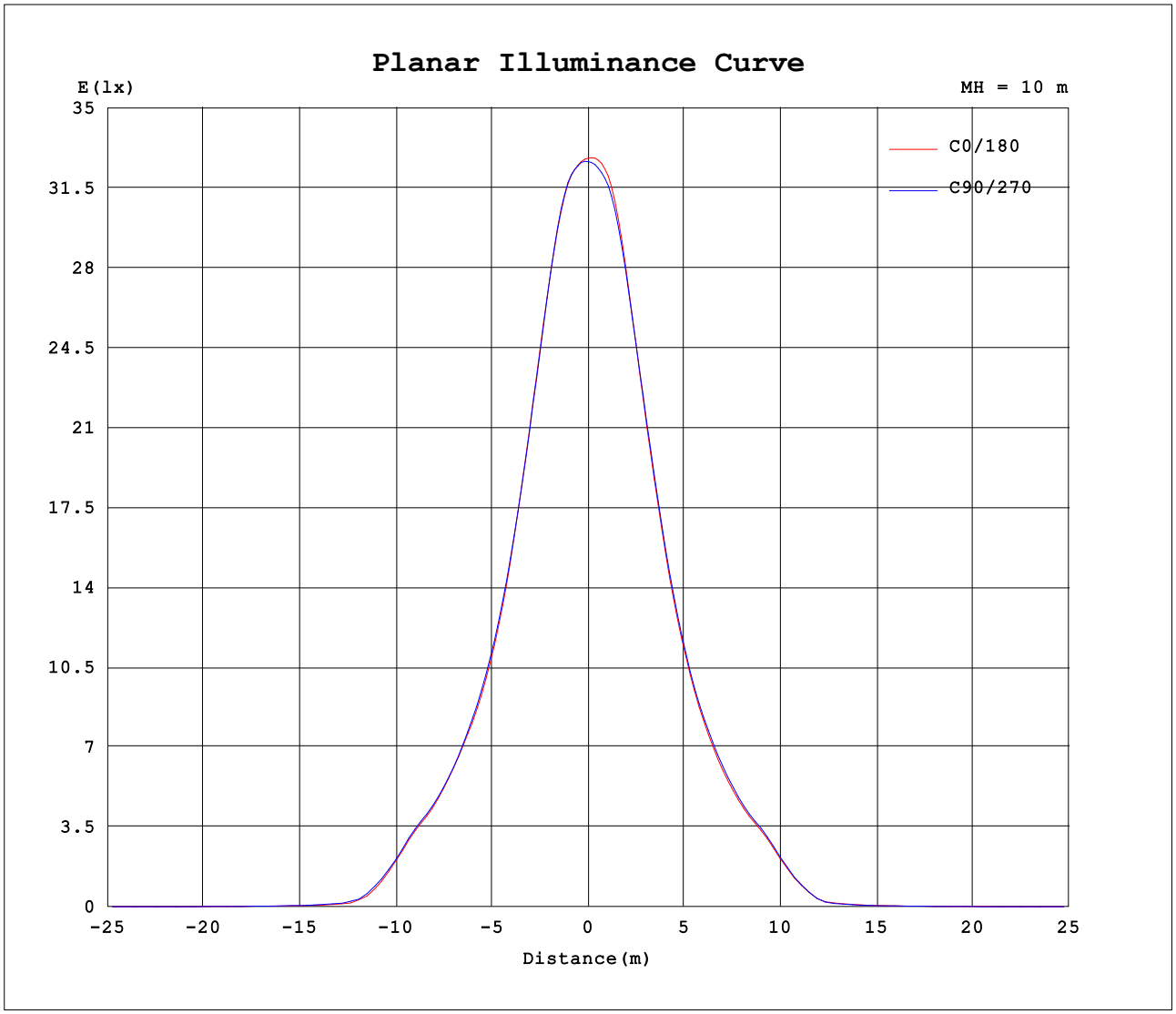
AvgL	cd/m2
L_0~180(65)av	4543
L_0~180(75)av	2029
L_0~180(85)av	809
L_90~270(65)av	4293
L_90~270(75)av	1640
L_90~270(85)av	547
L_45(65)av	4695
L_45(75)av	1969
L_45(85)av	625

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:0.1994A P:43.589W PF:0.9963 Freq:49.99Hz Lamp Flux:2978.74x1 lm		
Name: HCP-81322138 3000K	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	3281	3278	3276	3273	3270	3267	3265	3262	3260	3257	3257	3253	3281	3278	3276	3273	3270	3267	3265
5	3242	3247	3248	3250	3246	3248	3245	3247	3246	3248	3241	3241	3272	3263	3260	3253	3248	3234	3230
10	3011	3027	3013	3031	3023	3037	3019	3033	3020	3037	3022	3030	3054	3031	3037	3019	3033	3012	3024
15	2584	2601	2579	2596	2578	2595	2571	2589	2573	2601	2576	2592	2602	2577	2598	2582	2607	2592	2612
20	2087	2109	2089	2117	2106	2119	2089	2104	2097	2120	2093	2112	2124	2104	2134	2118	2145	2128	2144
25	1651	1666	1666	1692	1684	1698	1677	1681	1676	1681	1647	1668	1690	1684	1711	1703	1725	1708	1715
30	1339	1344	1350	1368	1360	1374	1364	1359	1353	1349	1319	1329	1352	1351	1378	1367	1386	1369	1375
35	1109	1112	1101	1113	1110	1118	1113	1109	1090	1088	1075	1074	1093	1090	1108	1102	1119	1119	1125
40	885	887	880	890	907	914	905	899	890	888	876	878	883	885	898	895	904	911	904
45	572	586	567	579	577	593	587	616	613	622	609	611	598	590	607	596	611	601	614
50	120	113	128	119	133	128	129	149	149	163	158	164	139	128	135	126	133	157	137
55	34.9	39.0	39.3	42.2	40.3	40.6	43.6	41.4	44.4	48.0	48.5	49.3	44.8	43.4	44.1	42.5	41.3	38.4	39.2
60	21.0	22.6	23.2	24.0	23.1	23.0	23.2	22.9	23.4	25.1	24.8	25.0	23.9	23.8	24.4	24.2	23.3	21.9	21.6
65	13.2	13.9	14.2	14.6	13.7	13.1	13.0	12.8	13.3	14.8	14.6	14.8	14.6	14.6	15.1	15.0	14.5	13.4	13.3
70	7.53	7.83	7.82	7.92	7.28	6.70	6.54	6.53	6.93	7.76	7.88	7.94	7.98	8.00	8.26	8.32	7.81	7.13	7.17
75	3.73	3.70	3.48	3.64	3.23	2.98	2.88	2.92	3.09	3.66	3.80	3.90	3.87	3.82	3.85	3.82	3.62	3.26	3.27
80	1.43	1.35	1.28	1.27	1.15	1.07	1.06	1.05	1.13	1.32	1.46	1.57	1.52	1.47	1.40	1.45	1.36	1.30	1.27
85	0.51	0.44	0.41	0.33	0.34	0.29	0.32	0.30	0.35	0.37	0.46	0.52	0.51	0.53	0.45	0.44	0.38	0.39	0.37
90	0.14	0.12	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.12	0.17	0.17	0.16	0.13	0.13	0.16	0.16

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:219.43V I:0.1994A P:43.589W PF:0.9963 Freq:49.99Hz Lamp Flux:2978.74x1 lm		
Name: HCP-81322138 3000K	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	3262	3260	3257	3257	3253
5	3219	3218	3211	3211	3208
10	3002	3005	2986	2994	2978
15	2583	2597	2563	2577	2550
20	2111	2119	2079	2085	2052
25	1687	1687	1648	1641	1624
30	1354	1357	1331	1335	1327
35	1108	1124	1101	1108	1102
40	901	879	890	891	880
45	614	604	600	606	589
50	125	132	132	115	121
55	35.4	37.3	34.9	34.4	33.3
60	20.7	21.2	20.7	20.3	20.1
65	12.8	13.2	13.1	12.8	12.7
70	6.85	7.27	7.56	7.57	7.48
75	3.15	3.40	3.63	3.77	3.79
80	1.28	1.35	1.45	1.50	1.52
85	0.39	0.38	0.44	0.45	0.52
90	0.16	0.15	0.16	0.16	0.16

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: