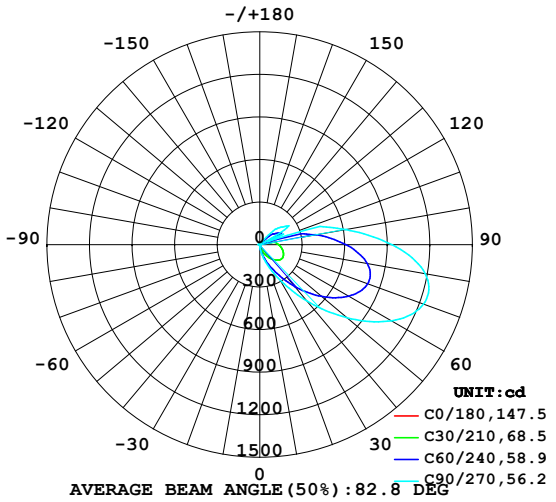
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.70V I:0.1491A P:28.330W PF:0.8647 Freq:49.99Hz Lamp Flux:1623.99x1 lm		
NAME: HCP-2323002 5500K	TYPE:	WEIGHT:
SPEC.: 30W Wall Washer Light 5500K	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:

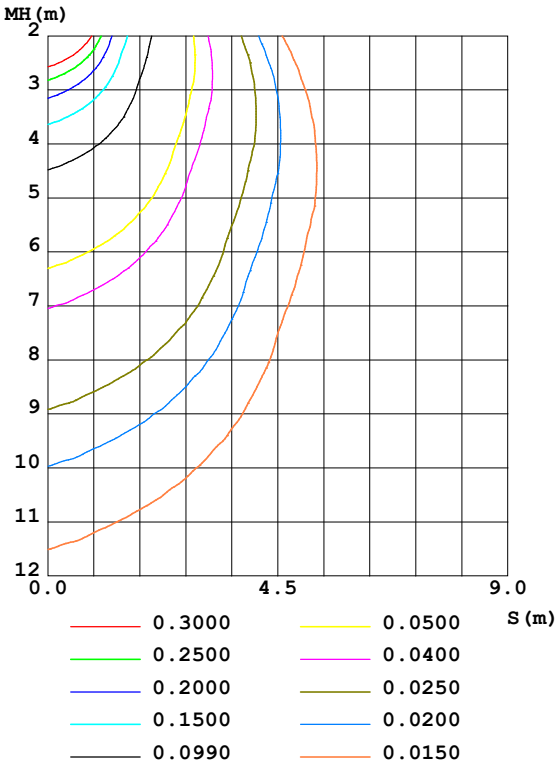
DATA OF LAMP		PHOTOMETRIC DATA Eff: 57.33 lm/W			
MODEL	HCP-2323002 5500K	Imax(cd)	1238	S/MH(C0/180)	1.56
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	0.15
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	1624.0	η UP,DN(C0-180)	23.7,75.1
NOMINAL FLUX(lm)	1623.99	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	0.8,0.4
LAMPS INSIDE	1	η up(%)	24.5	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	240	η down(%)	75.5	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):82.8 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:2021-03-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.120m [K=1.0000]
Remarks:

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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1.805	27.20	45.23	22.73	2.142	0.7038	0.5412	0.7693	0- 10	0.6948	0.6948	0.04,0.04
20	1.624	81.33	140.6	76.36	2.207	0.6108	0.6574	0.7267	10- 20	7.313	8.008	0.49,0.49
30	1.369	155.7	290.1	151.0	2.033	0.6531	0.8738	0.7767	20- 30	26.33	34.34	2.11,2.11
40	1.195	253.6	520.3	250.7	2.026	0.7190	1.137	0.8543	30- 40	64.45	98.79	6.08,6.08
50	1.102	355.8	801.7	358.1	1.967	0.9467	1.834	1.179	40- 50	125.0	223.8	13.8,13.8
60	0.9975	425.6	1075	437.0	1.844	1.418	3.048	1.724	50- 60	197.5	421.3	25.9,25.9
70	0.9009	444.5	1228	465.1	1.658	2.114	4.815	2.470	60- 70	260.1	681.4	42,42
80	0.8737	404.0	1184	430.6	1.449	3.003	6.585	3.320	70- 80	286.1	967.4	59.6,59.6
90	0.7509	319.0	931.7	346.5	1.198	3.919	8.197	4.244	80- 90	258.5	1226	75.5,75.5
100	0.8582	206.3	616.2	253.5	0.9893	4.731	9.282	4.859	90-100	192.3	1418	87.3,87.3
110	0.8620	46.12	120.9	90.33	0.9512	5.361	10.15	5.408	100-110	103.4	1522	93.7,93.7
120	0.9819	92.64	158.9	117.0	0.9819	5.254	8.536	4.910	110-120	36.74	1558	96,96
130	0.9435	33.18	189.8	50.90	0.8924	4.196	6.129	3.589	120-130	44.01	1602	98.7,98.7
140	0.7576	0.6837	53.18	0.5985	0.6531	3.113	4.586	2.618	130-140	18.44	1621	99.8,99.8
150	0.6803	0.3282	0.2943	0.3633	0.6224	2.467	3.827	2.126	140-150	1.572	1622	99.9,99.9
160	0.6803	7.857	0.5331	4.200	0.6263	1.721	2.472	1.535	150-160	0.7511	1623	99.9,99.9
170	0.6842	1.659	6.619	1.984	0.6108	1.164	1.344	1.117	160-170	0.7823	1624	100,100
180	0.6108	0.6108	0.6108	0.6185	0.6108	0.6224	0.6185	0.6533	170-180	0.1028	1624	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.120m [K=1.0000]
Remarks:

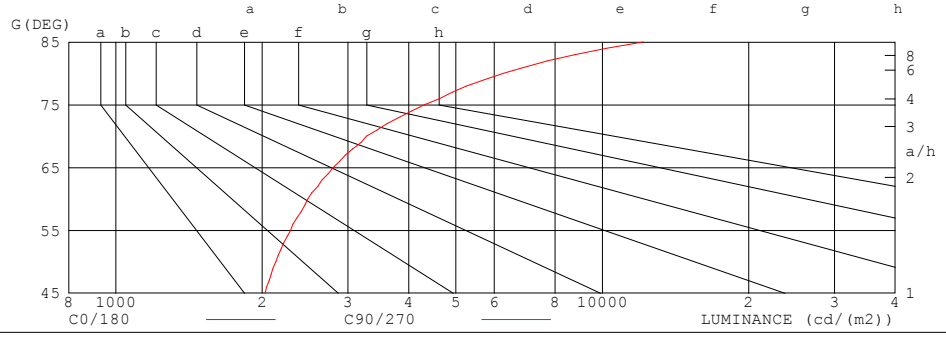
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LUMINANCE LIMITATION CURVES

Test:U:219.70V I:0.1491A P:28.330W PF:0.8647 Freq:49.99Hz Lamp Flux:1623.99x1 lm		
NAME: HCP-2323002 5500K	**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	12139	15398511
80	6259	8484882
75	4311	5933057
70	3277	4467403
65	2800	3454807
60	2482	2675789
55	2289	2050271
50	2132	1551521
45	2027	1156674

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-31

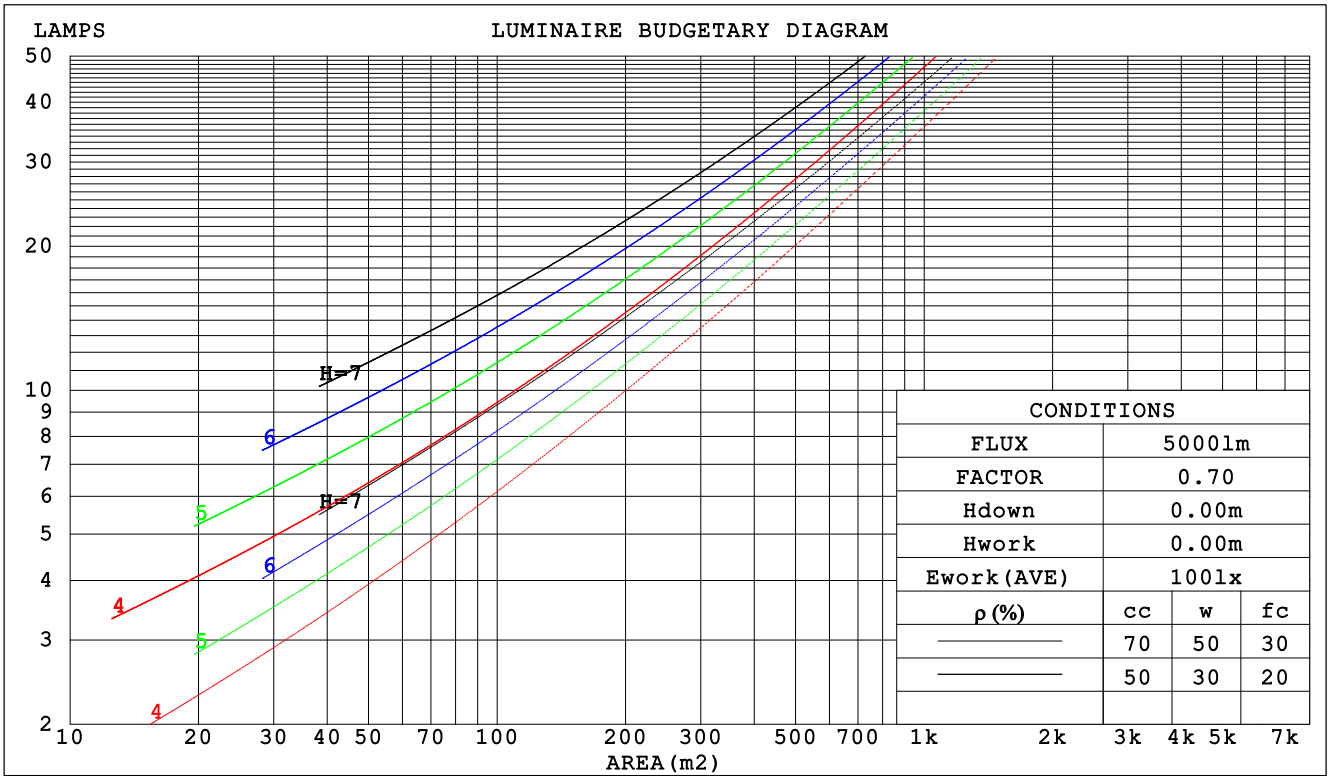
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.120m [K=1.0000]
Remarks:

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:219.70V I:0.1491A P:28.330W PF:0.8647 Freq:49.99Hz Lamp Flux:1623.99x1 lm		
NAME: HCP-2323002 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	1.13	1.13	1.13	1.08	1.08	1.08	.97	.97	.97	.88	.88	.88	.80	.80	.80	.75
1.0	.86	.79	.72	.81	.75	.69	.72	.67	.62	.64	.60	.55	.56	.53	.50	.45
2.0	.70	.60	.51	.66	.56	.49	.58	.50	.44	.51	.44	.39	.44	.39	.34	.30
3.0	.58	.47	.38	.55	.44	.36	.48	.39	.32	.42	.34	.29	.36	.30	.25	.21
4.0	.50	.38	.30	.46	.36	.28	.41	.32	.25	.35	.28	.22	.30	.24	.19	.15
5.0	.43	.32	.24	.40	.30	.22	.35	.26	.20	.30	.23	.17	.26	.20	.15	.11
6.0	.38	.27	.19	.35	.25	.18	.31	.22	.16	.27	.19	.14	.23	.17	.12	.09
7.0	.33	.23	.16	.31	.22	.15	.27	.19	.13	.24	.17	.11	.20	.14	.10	.07
8.0	.30	.20	.13	.28	.19	.13	.25	.17	.11	.21	.15	.10	.18	.12	.08	.06
9.0	.27	.18	.12	.25	.17	.11	.22	.15	.09	.19	.13	.08	.17	.11	.07	.04
10.0	.25	.16	.10	.23	.15	.09	.20	.13	.08	.18	.11	.07	.15	.10	.06	.04



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.120m [K=1.0000]
Remarks:

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WEC AND CCEC

Test:U:219.70V I:0.1491A P:28.330W PF:0.8647 Freq:49.99Hz Lamp Flux:1623.99x1 lm		
NAME: HCP-2323002 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						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.534	.304	.096	.519	.296	.094	.491	.282	.090	.465	.268	.086	.441	.256	.082	
2.0	.432	.237	.073	.418	.230	.071	.392	.218	.068	.368	.207	.065	.346	.196	.062	
3.0	.367	.195	.059	.355	.190	.057	.331	.179	.055	.309	.169	.052	.289	.160	.050	
4.0	.320	.166	.049	.309	.162	.048	.287	.152	.045	.267	.144	.043	.249	.135	.041	
5.0	.284	.145	.042	.273	.140	.041	.254	.132	.039	.236	.124	.037	.219	.117	.035	
6.0	.255	.128	.037	.245	.124	.036	.228	.117	.034	.211	.110	.032	.195	.103	.031	
7.0	.231	.114	.032	.223	.111	.032	.206	.104	.030	.191	.098	.029	.177	.092	.027	
8.0	.212	.103	.029	.204	.100	.028	.189	.094	.027	.175	.089	.026	.161	.083	.024	
9.0	.195	.094	.026	.188	.092	.026	.174	.086	.024	.161	.081	.023	.149	.076	.022	
10.0	.181	.087	.024	.174	.084	.023	.161	.079	.022	.149	.074	.021	.138	.069	.020	

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	.377	.377	.377	.322	.322	.322	.220	.220	.220	.126	.126	.126	.040	.040	.040	
1.0	.384	.342	.305	.329	.294	.262	.225	.202	.181	.129	.117	.106	.041	.038	.034	
2.0	.380	.321	.271	.326	.276	.234	.223	.191	.163	.129	.111	.096	.041	.036	.031	
3.0	.374	.306	.251	.320	.264	.218	.220	.183	.153	.127	.107	.090	.041	.035	.029	
4.0	.366	.294	.239	.314	.254	.208	.216	.177	.146	.125	.104	.087	.040	.034	.028	
5.0	.357	.285	.231	.307	.246	.201	.211	.172	.142	.122	.101	.084	.039	.033	.028	
6.0	.349	.277	.226	.300	.240	.197	.207	.168	.139	.120	.099	.083	.039	.032	.027	
7.0	.341	.271	.222	.293	.235	.193	.203	.165	.137	.118	.097	.082	.038	.032	.027	
8.0	.333	.265	.219	.287	.230	.191	.198	.162	.135	.115	.095	.081	.037	.031	.027	
9.0	.326	.261	.217	.281	.226	.189	.195	.159	.134	.113	.094	.080	.037	.031	.027	
10.0	.319	.257	.215	.275	.223	.187	.191	.157	.133	.111	.093	.079	.036	.030	.026	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.120m [K=1.0000]
Remarks:

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UGR(Unified Glare Rating) Table

Test:U:219.70V I:0.1491A P:28.330W PF:0.8647 Freq:49.99Hz Lamp Flux:1623.99x1 lm		
NAME: HCP-2323002 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	27.8	29.3	28.4	30.0	30.7	41.0	42.6	41.6	43.2	44.0
	3H	28.4	29.9	29.1	30.5	31.3	45.5	46.9	46.1	47.6	48.4
	4H	28.6	30.0	29.2	30.7	31.5	47.7	49.1	48.4	49.8	50.6
	6H	28.7	30.0	29.4	30.7	31.6	49.9	51.2	50.6	51.9	52.8
	8H	28.8	30.0	29.4	30.7	31.6	51.1	52.3	51.7	53.0	53.9
	12H	28.8	30.0	29.5	30.7	31.6	52.3	53.5	53.0	54.2	55.1
4H	2H	34.4	35.8	35.1	36.5	37.3	41.2	42.5	41.8	43.2	44.0
	3H	35.3	36.5	36.0	37.2	38.1	45.9	47.1	46.6	47.9	48.7
	4H	35.6	36.7	36.3	37.4	38.3	48.4	49.5	49.1	50.3	51.1
	6H	35.7	36.7	36.4	37.5	38.4	51.0	52.0	51.7	52.7	53.6
	8H	35.7	36.7	36.5	37.5	38.4	52.3	53.2	53.0	54.0	54.9
	12H	35.7	36.6	36.5	37.4	38.3	53.7	54.6	54.4	55.3	56.3
8H	4H	40.1	41.1	40.9	41.9	42.8	48.5	49.4	49.2	50.2	51.1
	6H	40.6	41.5	41.4	42.3	43.2	51.3	52.2	52.1	52.9	53.9
	8H	40.8	41.5	41.5	42.3	43.3	52.9	53.6	53.6	54.4	55.4
	12H	40.9	41.5	41.6	42.3	43.3	54.6	55.3	55.4	56.1	57.1
12H	4H	41.7	42.6	42.5	43.4	44.3	48.4	49.3	49.1	50.1	51.0
	6H	42.6	43.4	43.4	44.2	45.1	51.3	52.1	52.1	52.9	53.8
	8H	42.9	43.6	43.7	44.4	45.4	53.0	53.6	53.7	54.4	55.4

Variations with the observer position at spacings:		
S = 1.0H	+ 0.1 / - 0.1	+ 0.1 / - 0.1
1.5H	+ 0.2 / - 0.1	+ 0.2 / - 0.3
2.0H	+ 0.3 / - 0.3	+ 0.3 / - 0.3

CIE Pub.117, 1624 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.7)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.120m [K=1.0000]
Remarks:

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UTILIZATION FACTORS TABLE

Test:U:219.70V I:0.1491A P:28.330W PF:0.8647 Freq:49.99Hz Lamp Flux:1623.99x1 lm		
NAME: HCP-2323002 5500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:

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	35	21	12	34	20	12	32	19	12	4
0.80	43	27	18	41	27	17	38	25	16	7
1.00	50	34	23	48	33	23	44	34	22	11
1.25	57	41	30	54	39	29	50	37	27	16
1.50	63	47	35	60	45	34	54	41	32	20
2.00	71	56	45	68	54	43	61	49	40	26
2.50	77	63	52	73	60	50	66	55	46	31
3.00	81	68	58	77	65	56	69	60	52	36
4.00	87	76	66	83	73	64	75	66	59	42
5.00	91	81	73	87	78	70	78	71	64	46
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

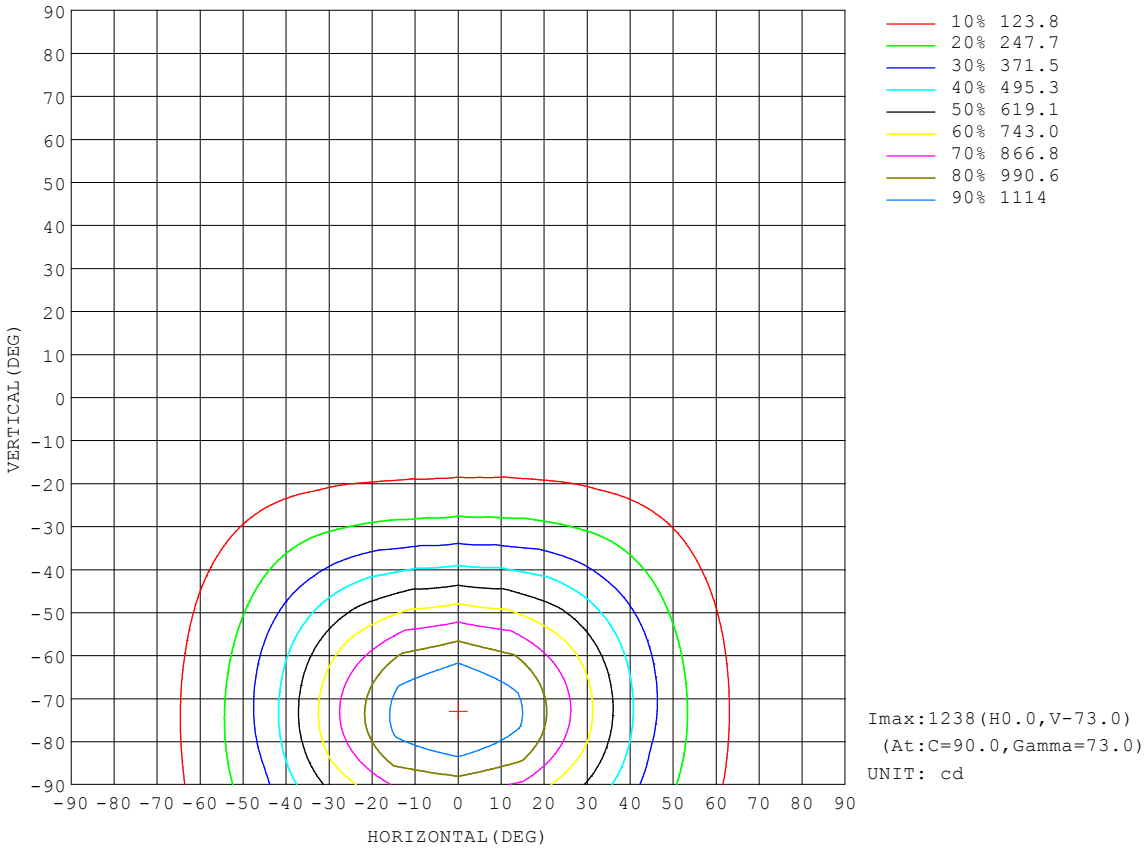
C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-31

γ Range: 0 - 180DEG
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.120m [K=1.0000]
Remarks:

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ISOCANDELA DIAGRAM

Test:U:219.70V I:0.1491A P:28.330W PF:0.8647 Freq:49.99Hz Lamp Flux:1623.99x1 lm		
NAME: HCP-2323002 5500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:



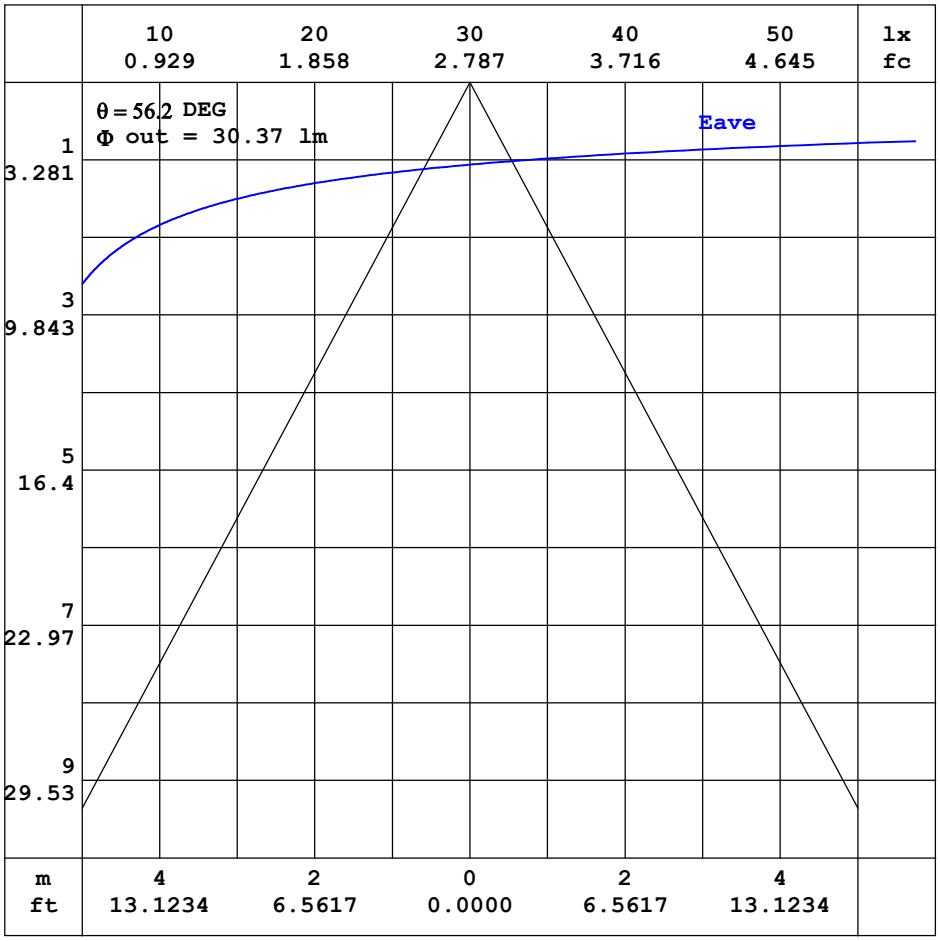
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.120m [K=1.0000]
Remarks:

HAVIT COMMERCIAL
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

AAI CURVES

Test:U:219.70V I:0.1491A P:28.330W PF:0.8647 Freq:49.99Hz Lamp Flux:1623.99x1 lm		
NAME: HCP-2323002 5500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:



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

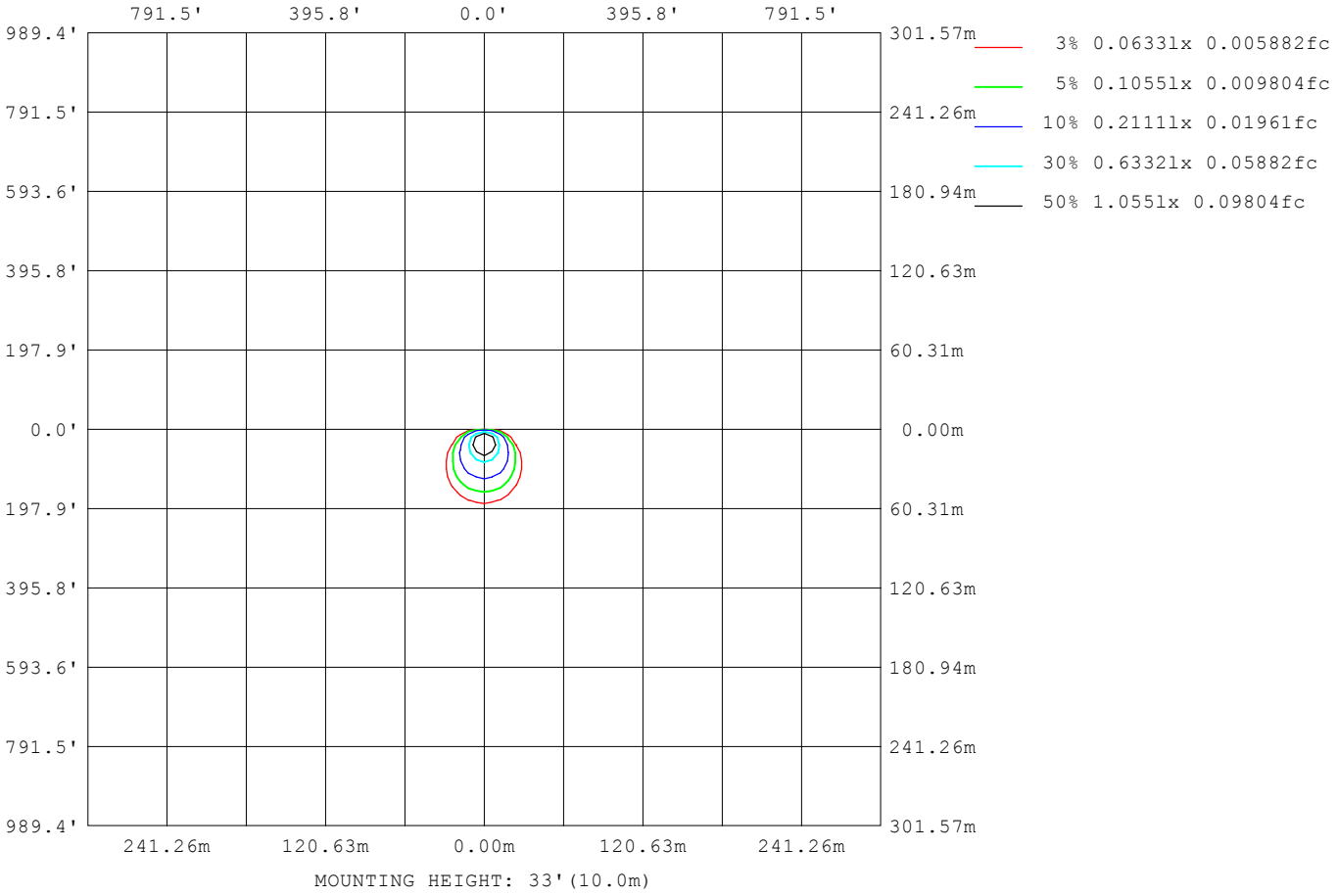
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.120m [K=1.0000]
Remarks:

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ISOLUX DIAGRAM

Test:U:219.70V I:0.1491A P:28.330W PF:0.8647 Freq:49.99Hz Lamp Flux:1623.99x1 lm		
NAME: HCP-2323002 5500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.120m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:219.70V I:0.1491A P:28.330W PF:0.8647 Freq:49.99Hz Lamp Flux:1623.99x1 lm		
NAME: HCP-2323002 5500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:

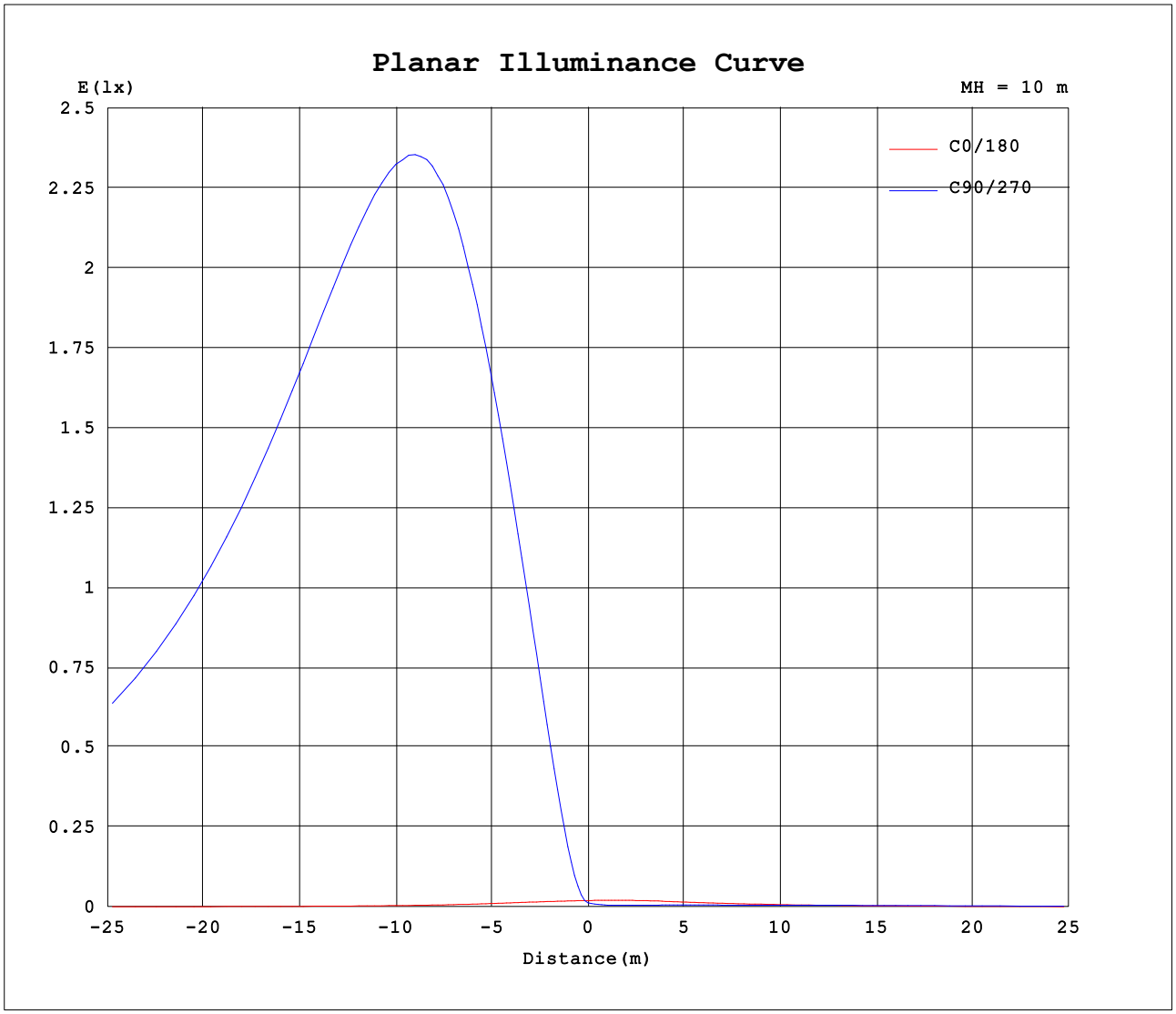
AvgL	cd/m2
L_0~180(65)av	3999
L_0~180(75)av	5899
L_0~180(85)av	15670
L_90~270(65)av	1733090
L_90~270(75)av	2980180
L_90~270(85)av	7752185
L_45(65)av	666103
L_45(75)av	1072123
L_45(85)av	2727645

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.120m [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:2021-03-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.120m [K=1.0000]
Remarks:

HAVIT COMMERCIAL
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.70V I:0.1491A P:28.330W PF:0.8647 Freq:49.99Hz Lamp Flux:1623.99x1 lm		
NAME: HCP-2323002 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	1.99	1.94	1.86	1.65	1.52	1.36	1.26	1.22	1.26	1.36	1.48	1.61	1.99	1.94	1.86	1.65	1.52	1.36	1.26
5	1.89	3.67	6.75	9.69	12.8	13.7	14.2	12.1	10.0	6.67	4.00	2.04	2.08	1.52	1.17	0.97	0.76	0.68	0.60
10	1.81	6.64	16.4	27.2	37.7	43.0	45.2	40.7	33.7	22.7	12.4	4.17	2.14	1.28	0.89	0.70	0.60	0.55	0.54
15	1.72	10.7	30.2	51.6	71.8	83.0	87.8	80.4	67.2	46.7	25.8	7.93	2.19	1.11	0.73	0.63	0.57	0.55	0.58
20	1.62	16.0	47.1	81.3	113	133	141	130	108	76.4	42.8	13.3	2.21	0.97	0.67	0.61	0.61	0.61	0.66
25	1.50	22.1	66.3	116	164	194	207	191	158	111	62.6	20.1	2.14	0.89	0.67	0.61	0.67	0.70	0.78
30	1.37	28.8	87.5	156	225	271	290	267	219	151	84.4	27.6	2.03	0.84	0.67	0.65	0.76	0.79	0.87
35	1.26	35.6	110	202	299	368	395	364	293	198	108	35.5	2.03	0.81	0.67	0.67	0.81	0.89	0.98
40	1.19	41.9	132	254	386	482	520	478	381	251	132	43.1	2.03	0.78	0.67	0.72	0.89	1.02	1.14
45	1.15	47.2	154	307	478	606	657	604	475	306	155	49.7	2.01	0.75	0.68	0.79	1.08	1.26	1.42
50	1.10	51.1	171	356	568	736	802	736	569	358	174	54.9	1.97	0.73	0.71	0.95	1.33	1.63	1.83
55	1.06	53.5	182	396	654	863	945	866	659	402	188	58.5	1.91	0.72	0.79	1.16	1.68	2.11	2.37
60	1.00	54.4	187	426	727	976	1075	984	738	437	194	60.7	1.84	0.72	0.91	1.42	2.10	2.72	3.05
65	0.95	54.5	185	443	781	1066	1174	1078	799	459	194	61.7	1.77	0.72	1.05	1.72	2.64	3.44	3.86
70	0.90	53.7	179	445	810	1118	1228	1134	835	465	189	61.5	1.66	0.75	1.20	2.11	3.28	4.31	4.81
75	0.90	51.4	170	431	808	1125	1234	1145	838	455	181	59.0	1.56	0.79	1.38	2.56	3.98	5.16	5.68
80	0.87	48.4	159	404	770	1080	1184	1104	806	431	171	56.9	1.45	0.86	1.60	3.00	4.62	5.99	6.59
85	0.85	45.3	146	364	699	982	1079	1010	738	393	159	54.2	1.35	0.92	1.86	3.44	5.28	6.77	7.42
90	0.75	42.0	134	319	608	850	932	878	645	347	146	51.0	1.20	1.03	2.15	3.92	5.90	7.51	8.20
95	0.84	39.0	122	273	508	704	771	730	544	298	134	47.9	1.23	1.16	2.44	4.34	6.48	8.19	8.89
100	0.86	35.9	93.2	206	407	564	616	586	443	253	117	44.8	0.99	1.29	2.75	4.73	6.94	8.64	9.28
105	0.86	22.6	58.0	77.9	302	443	486	462	356	125	80.7	36.1	0.89	1.46	3.03	5.18	7.62	9.19	9.71
110	0.86	9.47	54.3	46.1	77.9	76.5	121	88.9	91.3	90.3	76.4	19.5	0.95	1.65	3.24	5.36	7.87	9.63	10.1
115	0.96	4.86	53.4	103	38.2	80.7	131	91.6	39.8	130	70.6	9.21	1.01	1.72	3.28	5.42	7.41	9.27	9.61
120	0.98	2.16	24.8	92.6	170	187	159	181	183	117	48.6	3.53	0.98	1.84	3.37	5.25	6.96	8.19	8.54
125	0.95	4.02	2.95	83.4	138	211	229	217	148	102	10.5	2.49	0.97	1.73	3.02	5.00	6.05	7.36	7.43
130	0.94	4.76	0.89	33.2	118	175	190	180	126	50.9	2.28	3.59	0.89	1.65	2.70	4.20	5.23	6.00	6.13
135	0.78	4.33	0.73	3.83	44.2	127	153	139	59.6	3.90	0.78	3.14	0.68	1.52	2.41	3.52	4.57	5.30	5.18
140	0.76	3.02	0.50	0.68	4.06	30.6	53.2	37.0	2.86	0.60	0.56	3.29	0.65	1.38	2.21	3.11	3.94	4.52	4.59
145	0.68	2.59	0.33	0.47	0.54	0.48	0.70	0.47	0.46	0.43	0.43	3.05	0.62	1.27	1.93	2.79	3.42	3.79	3.81
150	0.68	2.44	0.58	0.33	0.27	0.25	0.29	0.24	0.37	0.36	0.49	3.87	0.62	1.61	1.75	2.47	3.20	3.35	3.83
155	0.68	1.31	4.06	0.26	0.17	0.11	0.17	0.14	0.25	0.34	3.97	2.81	0.62	1.20	1.68	2.03	2.52	3.21	2.89
160	0.68	0.63	3.54	7.86	3.67	3.10	0.53	1.93	2.63	4.20	4.74	0.91	0.63	0.95	1.28	1.72	1.98	2.29	2.47
165	0.68	0.60	1.72	3.51	7.58	7.15	7.48	7.35	8.46	4.22	2.68	0.78	0.61	0.88	1.15	1.47	1.60	1.72	1.72
170	0.68	0.54	0.43	1.66	3.81	6.12	6.62	6.38	2.85	1.98	0.53	0.65	0.61	0.78	0.95	1.16	1.27	1.40	1.34
175	0.63	0.58	0.47	0.46	0.39	0.39	0.36	0.41	0.42	0.51	0.58	0.73	0.61	0.70	0.74	0.87	0.91	0.98	0.96
180	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.62	0.67	0.68	0.61	0.62	0.61	0.62	0.62	0.63	0.62

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.120m [K=1.0000]
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.70V I:0.1491A P:28.330W PF:0.8647 Freq:49.99Hz Lamp Flux:1623.99x1 lm		
NAME: HCP-2323002 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	1.22	1.26	1.36	1.48	1.61														
5	0.65	0.71	0.90	1.09	1.35														
10	0.57	0.63	0.77	0.90	1.18														
15	0.61	0.65	0.73	0.86	1.02														
20	0.63	0.69	0.73	0.79	0.92														
25	0.74	0.76	0.73	0.78	0.86														
30	0.85	0.83	0.78	0.80	0.84														
35	0.91	0.88	0.79	0.82	0.83														
40	1.07	0.98	0.85	0.82	0.83														
45	1.34	1.21	0.97	0.85	0.82														
50	1.73	1.50	1.18	0.94	0.82														
55	2.25	1.90	1.41	1.06	0.85														
60	2.87	2.37	1.72	1.21	0.86														
65	3.62	2.94	2.08	1.36	0.91														
70	4.49	3.60	2.47	1.53	0.96														
75	5.33	4.27	2.91	1.74	1.05														
80	6.17	4.90	3.32	2.00	1.15														
85	6.96	5.57	3.81	2.22	1.22														
90	7.66	6.11	4.24	2.45	1.27														
95	8.27	6.63	4.63	2.68	1.35														
100	8.62	6.89	4.86	2.93	1.47														
105	9.18	7.50	5.20	3.16	1.59														
110	9.60	7.66	5.41	3.28	1.73														
115	9.25	7.22	5.44	3.32	1.84														
120	7.98	6.62	4.91	3.30	1.91														
125	7.11	5.58	4.55	2.88	1.79														
130	5.64	4.72	3.59	2.44	1.73														
135	4.93	4.10	3.03	2.14	1.53														
140	4.16	3.43	2.62	1.85	1.37														
145	3.47	2.95	2.28	1.65	1.23														
150	3.14	2.81	2.13	1.47	1.60														
155	2.92	2.23	1.76	1.46	1.17														
160	2.28	1.83	1.54	1.21	0.99														
165	1.64	1.46	1.35	1.10	0.95														
170	1.32	1.23	1.12	0.96	0.88														
175	0.96	0.87	0.87	0.79	0.80														
180	0.63	0.63	0.65	0.67	0.72														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.120m [K=1.0000]
Remarks: