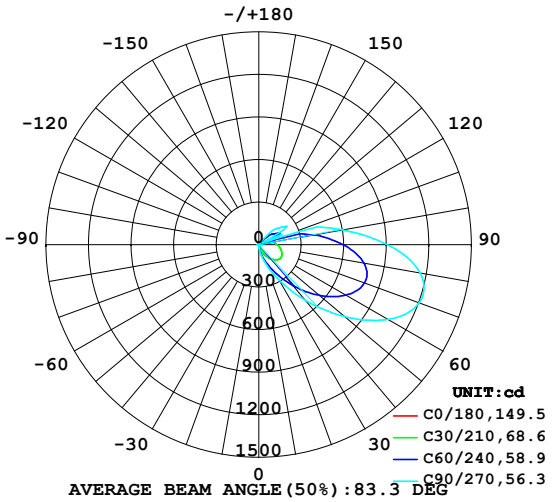
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Tel: 02 9381 8383
E-mail:sales@havitcommercial.com.au

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.70V I:0.1454A P:27.704W PF:0.8672 Freq:49.99Hz Lamp Flux:1590.41x1 lm		
NAME: HCP-2323002 4000K	TYPE:	WEIGHT:
SPEC.: 30W Wall Washer Light 4000K	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:

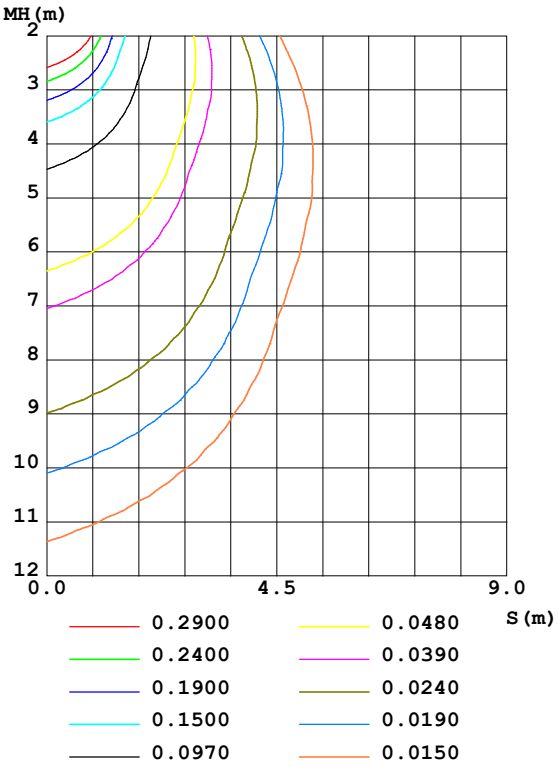
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 57.41 lm/W	
MODEL	HCP-2323002 4000K	Imax(cd)	1212	S/MH(C0/180)	1.60
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	0.15
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	1590.4	η UP,DN(C0-180)	23.6,75.2
NOMINAL FLUX(lm)	1590.41	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	0.8,0.4
LAMPS INSIDE	1	η up(%)	24.4	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	240	η down(%)	75.6	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):83.3 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: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
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E-mail:sales@havitcommercial.com.au

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1.759	26.66	45.35	23.54	2.095	0.6922	0.5258	0.7423	0- 10	0.7003	0.7003	0.04,0.04
20	1.581	79.71	139.3	76.70	2.141	0.5992	0.6380	0.6958	10- 20	7.274	7.974	0.50,0.50
30	1.338	152.6	286.6	150.4	2.026	0.6223	0.8507	0.7305	20- 30	26.06	34.03	2.14,2.14
40	1.171	248.5	512.9	248.8	2.018	0.6880	1.114	0.7962	30- 40	63.60	97.64	6.14,6.14
50	1.079	348.6	788.6	354.1	1.956	0.9237	1.787	1.148	40- 50	123.1	220.7	13.9,13.9
60	0.9782	417.0	1055	430.8	1.844	1.399	2.963	1.673	50- 60	194.1	414.8	26.1,26.1
70	0.8892	435.3	1202	457.2	1.666	2.079	4.687	2.400	60- 70	255.2	670.0	42.1,42.1
80	0.8582	395.5	1155	421.8	1.461	2.933	6.423	3.243	70- 80	280.0	950.0	59.7,59.7
90	0.7392	311.9	907.8	338.1	1.214	3.834	8.007	4.132	80- 90	252.4	1202	75.6,75.6
100	0.8582	201.9	600.7	247.1	0.9892	4.626	9.088	4.754	90-100	187.6	1390	87.4,87.4
110	0.8582	44.64	115.1	88.00	0.9435	5.257	9.938	5.307	100-110	100.8	1491	93.7,93.7
120	0.9703	91.28	158.8	113.7	0.9781	5.157	8.405	4.817	110-120	35.99	1527	96,96
130	0.9164	32.35	184.9	47.32	0.8886	4.107	6.021	3.523	120-130	42.90	1570	98.7,98.7
140	0.7422	0.6644	49.79	0.5409	0.6338	3.047	4.516	2.579	130-140	17.78	1587	99.8,99.8
150	0.6726	0.2975	0.2826	0.3557	0.6108	2.416	3.761	2.103	140-150	1.487	1589	99.9,99.9
160	0.6726	7.775	0.7321	4.522	0.6185	1.686	2.433	1.512	150-160	0.7286	1590	99.9,99.9
170	0.6650	1.589	5.617	1.823	0.6030	1.141	1.336	1.094	160-170	0.7581	1590	100,100
180	0.6069	0.6108	0.6108	0.6146	0.5992	0.6185	0.6185	0.6494	170-180	0.0983	1590	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:

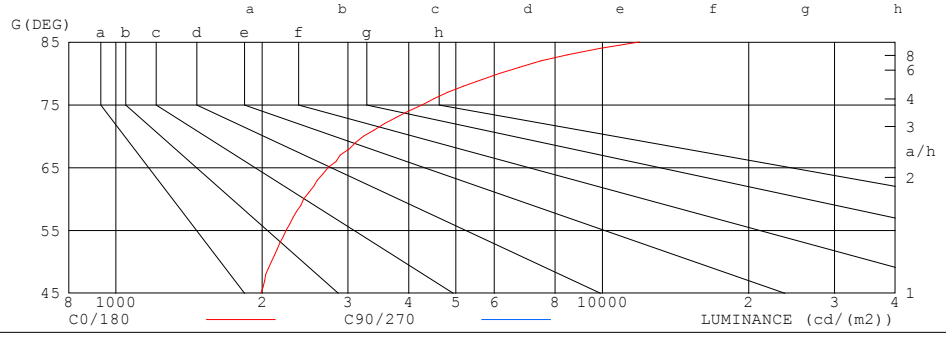
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LUMINANCE LIMITATION CURVES

Test:U:219.70V I:0.1454A P:27.704W PF:0.8672 Freq:49.99Hz Lamp Flux:1590.41x1 lm		
NAME: HCP-2323002 4000K	**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	11917	15002564
80	6149	8278042
75	4273	5800130
70	3234	4373829
65	2731	3386245
60	2434	2625959
55	2239	2015276
50	2087	1526312
45	1986	1138189

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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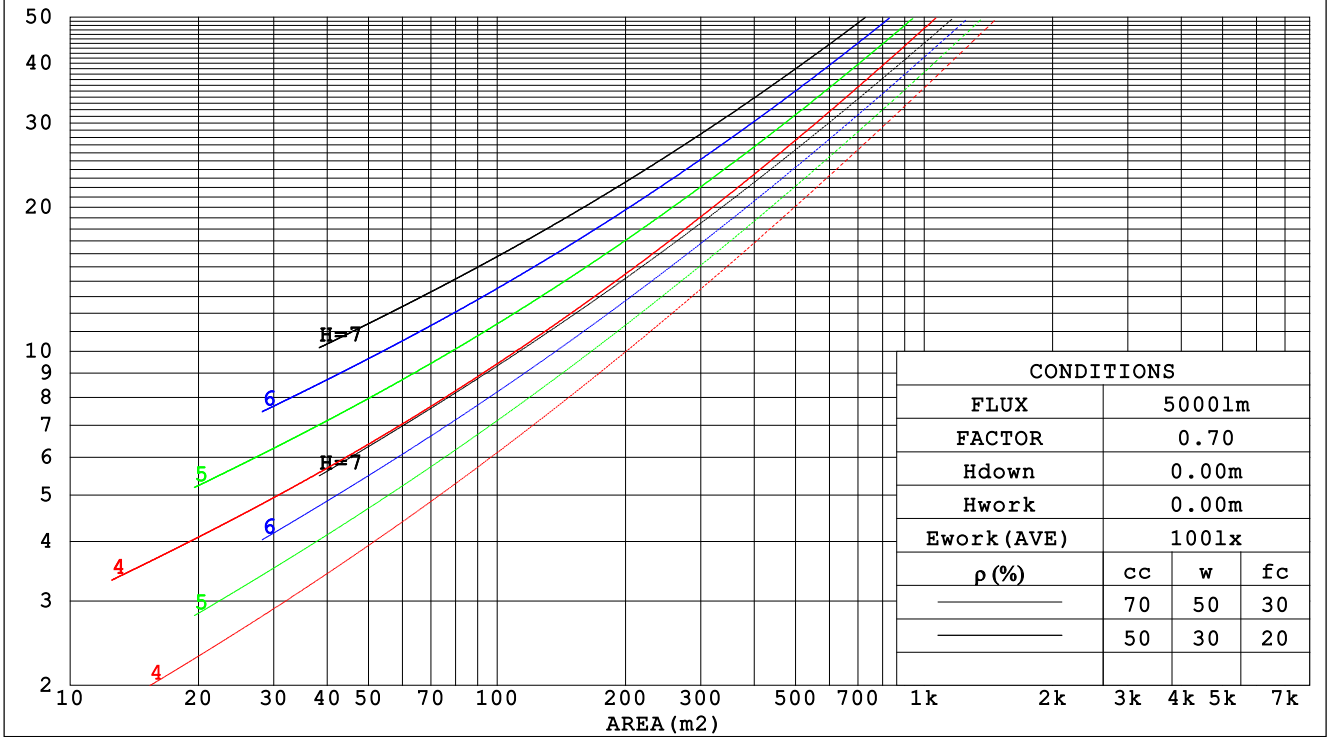
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:219.70V I:0.1454A P:27.704W PF:0.8672 Freq:49.99Hz Lamp Flux:1590.41x1 lm		
NAME: HCP-2323002 4000K	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	.98	.98	.98	.88	.88	.88	.80	.80	.80	.76
1.0	.86	.79	.72	.81	.75	.69	.72	.67	.62	.64	.60	.56	.56	.53	.50	.45
2.0	.70	.60	.51	.66	.57	.49	.58	.50	.44	.51	.44	.39	.44	.39	.34	.30
3.0	.58	.47	.38	.55	.44	.36	.48	.39	.32	.42	.35	.29	.36	.30	.25	.21
4.0	.50	.38	.30	.47	.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	.12
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	.20	.13	.08	.17	.11	.07	.05
10.0	.25	.16	.10	.23	.15	.09	.20	.13	.08	.18	.12	.07	.15	.10	.06	.04

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



CONDITIONS			
FLUX	5000lm		
FACTOR	0.70		
Hdown	0.00m		
Hwork	0.00m		
Ework(AVE)	100lx		
ρ(%)	cc	w	fc
———	70	50	30
———	50	30	20

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:0.1454A P:27.704W PF:0.8672 Freq:49.99Hz Lamp Flux:1590.41x1 lm		
NAME: HCP-2323002 4000K	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	.490	.281	.090	.465	.268	.086	.441	.255	.082	
2.0	.432	.236	.073	.418	.230	.071	.392	.218	.068	.368	.207	.065	.346	.196	.062	
3.0	.367	.195	.058	.355	.190	.057	.331	.179	.055	.309	.170	.052	.289	.160	.050	
4.0	.320	.166	.049	.309	.161	.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	.196	.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	.162	.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	.376	.376	.376	.322	.322	.322	.220	.220	.220	.126	.126	.126	.040	.040	.040	
1.0	.383	.342	.304	.328	.293	.262	.224	.202	.181	.129	.117	.105	.041	.038	.034	
2.0	.380	.320	.270	.325	.275	.233	.223	.191	.163	.128	.111	.095	.041	.036	.031	
3.0	.373	.305	.250	.320	.263	.217	.219	.183	.152	.127	.107	.090	.041	.035	.029	
4.0	.365	.293	.238	.313	.253	.207	.215	.177	.146	.125	.103	.086	.040	.034	.028	
5.0	.356	.284	.230	.306	.246	.201	.211	.172	.142	.122	.101	.084	.039	.033	.028	
6.0	.348	.276	.225	.299	.239	.196	.206	.168	.139	.120	.099	.082	.039	.032	.027	
7.0	.340	.270	.221	.292	.234	.193	.202	.164	.136	.117	.097	.081	.038	.032	.027	
8.0	.332	.265	.218	.286	.229	.190	.198	.161	.135	.115	.095	.080	.037	.031	.027	
9.0	.325	.260	.216	.280	.226	.188	.194	.159	.134	.113	.094	.080	.037	.031	.026	
10.0	.319	.256	.214	.275	.222	.187	.191	.156	.133	.111	.092	.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:0.1454A P:27.704W PF:0.8672 Freq:49.99Hz Lamp Flux:1590.41x1 lm		
NAME: HCP-2323002 4000K	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	41.1	42.6	41.7	43.2	44.0
	3H	28.4	29.8	29.0	30.5	31.3	45.5	46.9	46.1	47.6	48.4
	4H	28.6	30.0	29.2	30.6	31.4	47.7	49.1	48.4	49.8	50.6
	6H	28.7	30.0	29.4	30.7	31.5	49.9	51.2	50.6	51.9	52.8
	8H	28.7	30.0	29.4	30.7	31.6	51.1	52.3	51.7	53.0	53.9
	12H	28.8	30.0	29.4	30.7	31.5	52.3	53.5	52.9	54.2	55.0
4H	2H	34.4	35.8	35.1	36.5	37.3	41.2	42.6	41.8	43.2	44.0
	3H	35.3	36.5	36.0	37.2	38.1	45.9	47.2	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	53.6	54.5	54.4	55.3	56.2
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	52.1	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	40.8	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	52.9	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, 1590 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.6)

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:0.1454A P:27.704W PF:0.8672 Freq:49.99Hz Lamp Flux:1590.41x1 lm		
NAME: HCP-2323002 4000K	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	24	48	33	23	44	34	22	11
1.25	57	41	30	55	39	29	50	37	27	16
1.50	63	47	35	60	45	34	54	42	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	67	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	

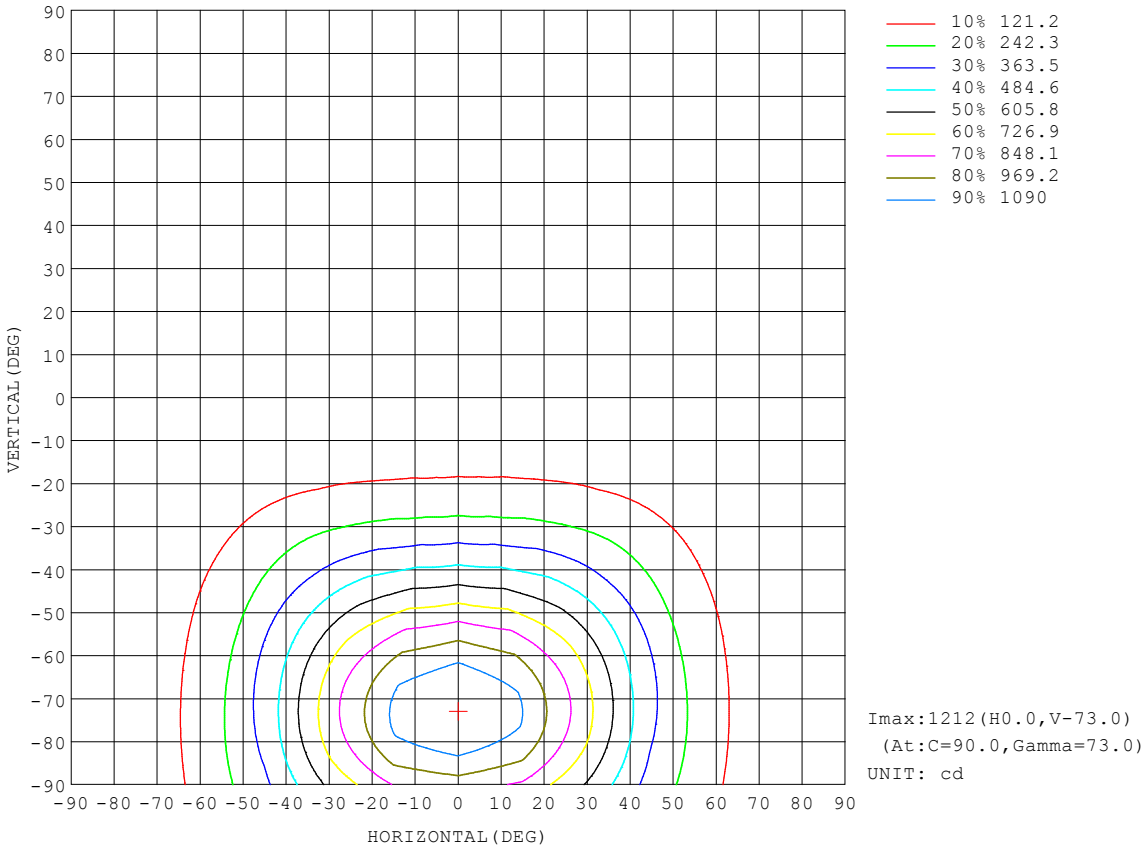
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Remarks:

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ISOCANDELA DIAGRAM

Test:U:219.70V I:0.1454A P:27.704W PF:0.8672 Freq:49.99Hz Lamp Flux:1590.41x1 lm		
NAME: HCP-2323002 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:



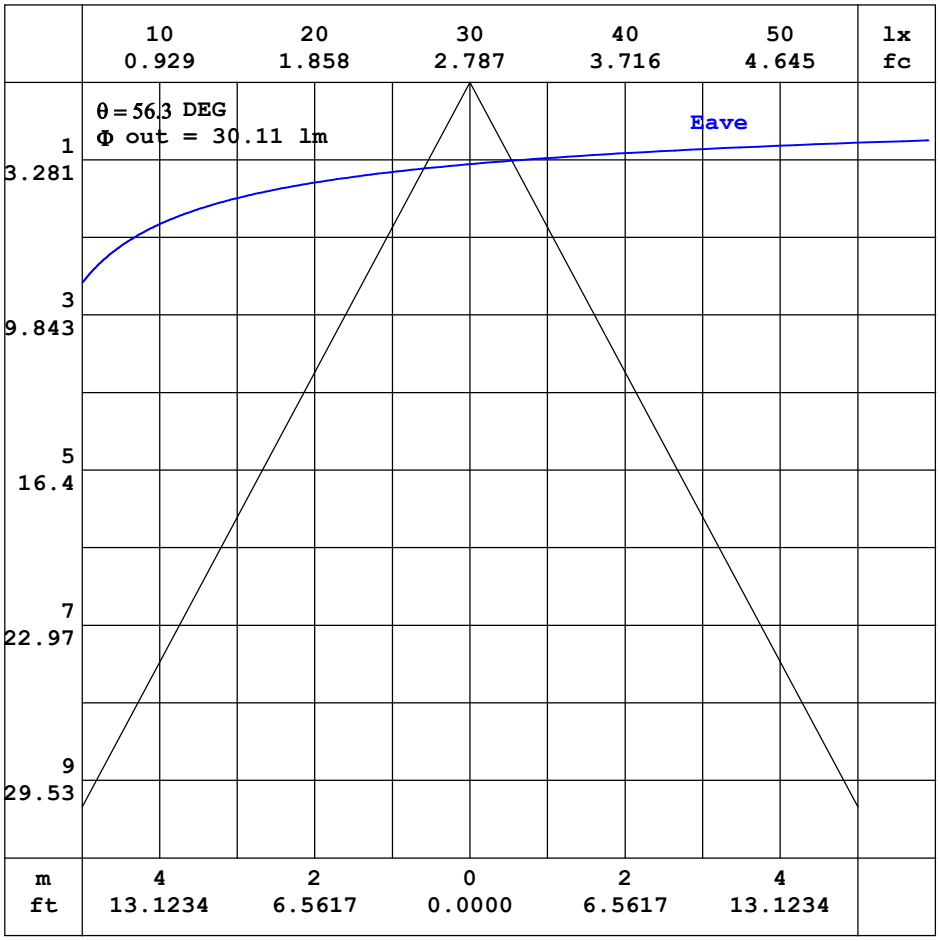
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-31

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:0.1454A P:27.704W PF:0.8672 Freq:49.99Hz Lamp Flux:1590.41x1 lm		
NAME: HCP-2323002 4000K	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.

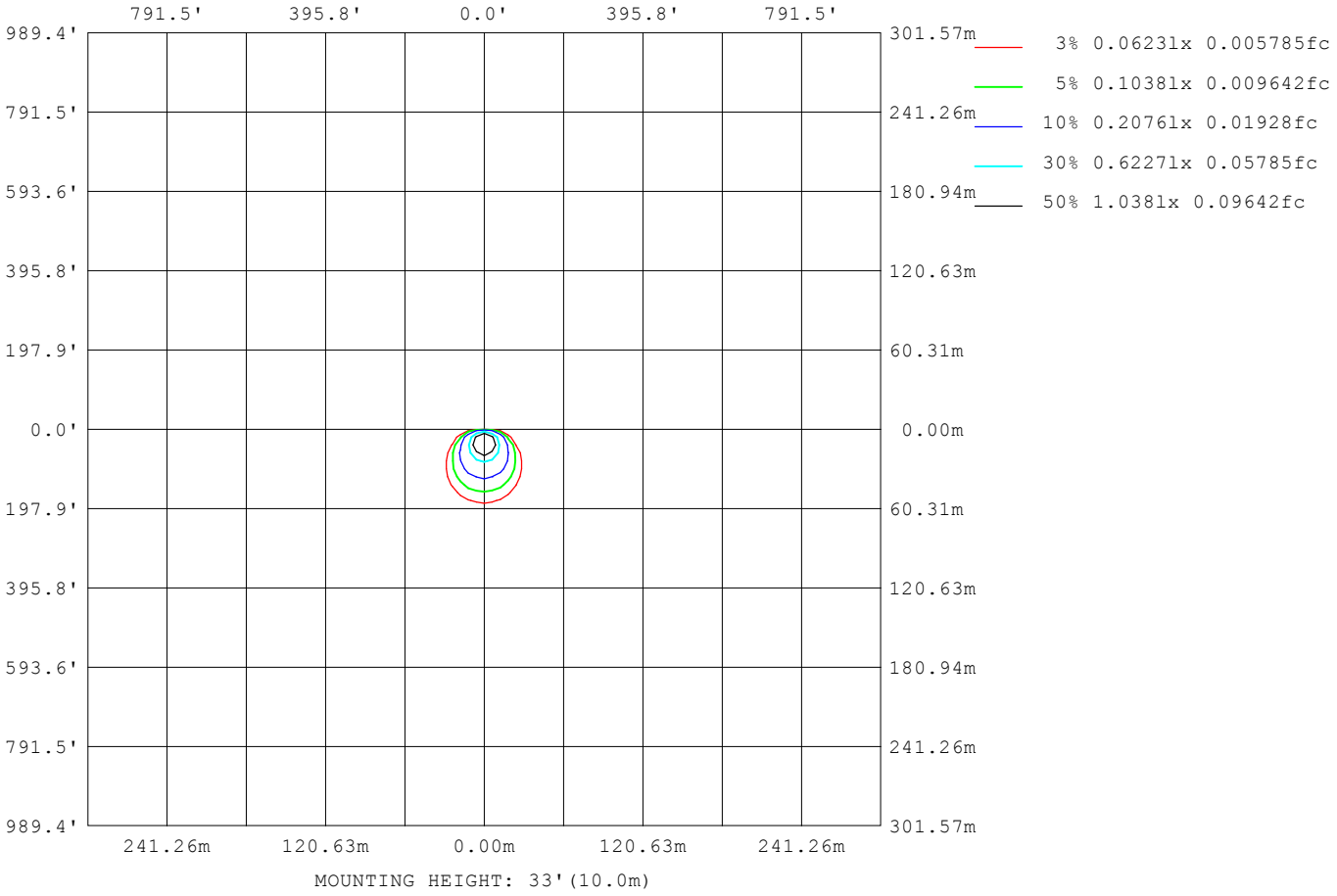
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-31

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:0.1454A P:27.704W PF:0.8672 Freq:49.99Hz Lamp Flux:1590.41x1 lm		
NAME: HCP-2323002 4000K	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:0.1454A P:27.704W PF:0.8672 Freq:49.99Hz Lamp Flux:1590.41x1 lm		
NAME: HCP-2323002 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:

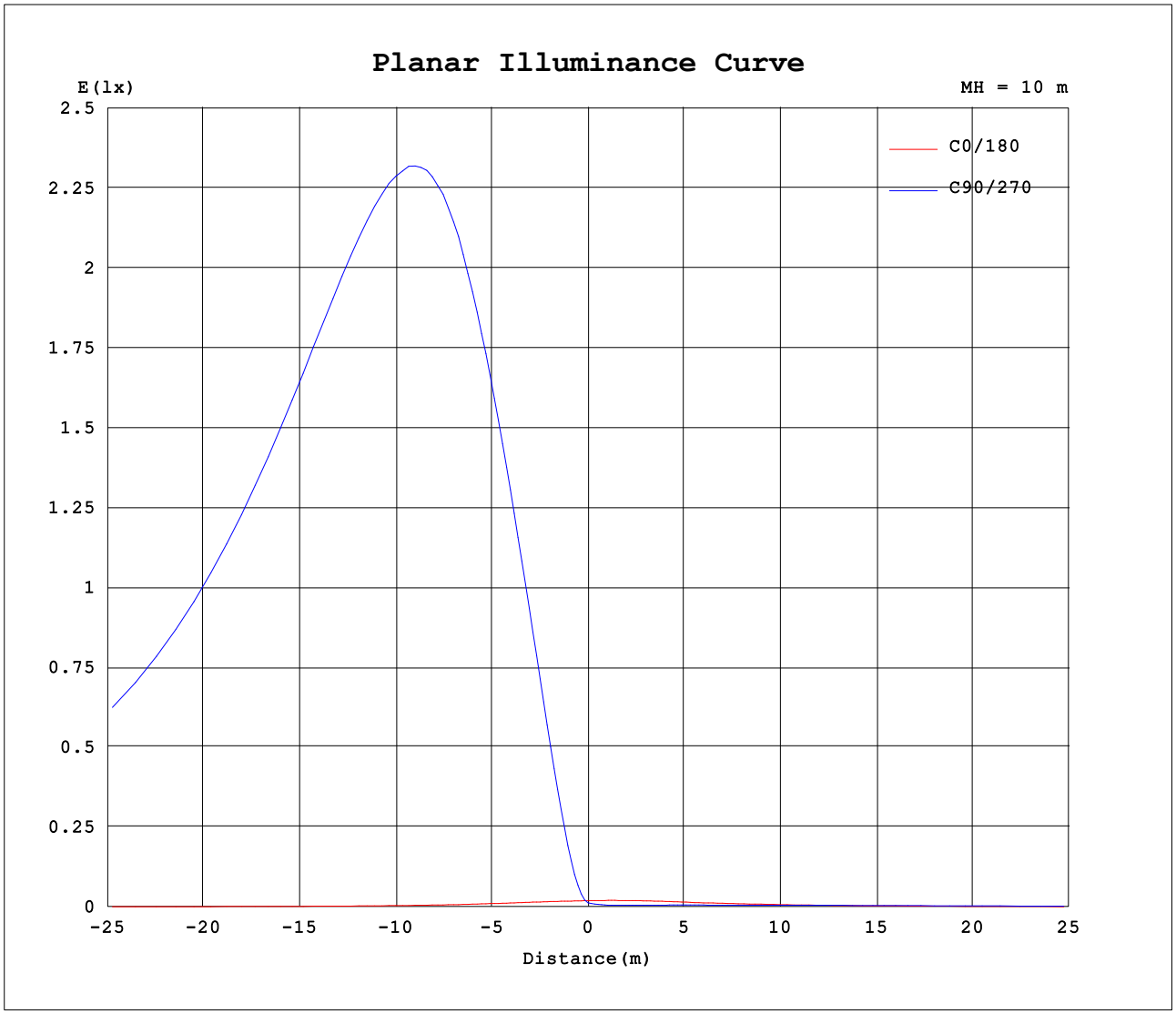
AvgL	cd/m2
L_0~180(65)av	3959
L_0~180(75)av	5936
L_0~180(85)av	15641
L_90~270(65)av	1698666
L_90~270(75)av	2913382
L_90~270(85)av	7552996
L_45(65)av	654143
L_45(75)av	1051064
L_45(85)av	2667632

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:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.70V I:0.1454A P:27.704W PF:0.8672 Freq:49.99Hz Lamp Flux:1590.41x1 lm		
NAME: HCP-2323002 4000K	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	1.94	1.88	1.81	1.62	1.51	1.35	1.26	1.24	1.27	1.37	1.49	1.61	1.94	1.88	1.81	1.62	1.51	1.35	1.26
5	1.84	3.53	6.55	9.50	12.6	13.8	14.5	12.7	10.6	7.22	4.40	2.19	2.02	1.49	1.15	0.95	0.74	0.67	0.60
10	1.76	6.44	16.0	26.7	37.2	42.7	45.3	41.1	34.4	23.5	13.0	4.54	2.10	1.26	0.87	0.69	0.56	0.54	0.53
15	1.67	10.4	29.5	50.6	70.5	82.2	87.3	80.4	67.6	47.3	26.5	8.44	2.15	1.08	0.72	0.62	0.56	0.54	0.56
20	1.58	15.5	46.0	79.7	111	131	139	129	108	76.7	43.4	13.9	2.14	0.96	0.67	0.60	0.59	0.61	0.64
25	1.46	21.5	64.9	114	161	191	204	189	158	111	63.0	20.7	2.09	0.87	0.65	0.61	0.66	0.67	0.75
30	1.34	28.0	85.6	153	221	267	287	265	217	150	84.5	28.2	2.03	0.82	0.65	0.62	0.74	0.78	0.85
35	1.23	34.7	107	198	293	362	390	360	290	197	107	36.0	2.03	0.79	0.65	0.66	0.79	0.86	0.95
40	1.17	40.8	130	249	379	474	513	472	377	249	131	43.4	2.02	0.77	0.65	0.69	0.87	0.98	1.11
45	1.13	46.0	150	300	469	595	647	595	470	303	153	49.8	2.01	0.74	0.66	0.78	1.06	1.23	1.38
50	1.08	49.8	167	349	557	722	789	725	562	354	172	54.7	1.96	0.72	0.70	0.92	1.30	1.58	1.79
55	1.03	52.1	178	388	641	847	929	853	650	397	185	58.0	1.91	0.70	0.78	1.14	1.64	2.07	2.31
60	0.98	53.0	183	417	712	958	1055	967	727	431	191	60.0	1.84	0.70	0.89	1.40	2.06	2.65	2.96
65	0.93	53.1	180	434	765	1045	1150	1058	786	452	190	60.8	1.76	0.70	1.03	1.71	2.58	3.37	3.77
70	0.89	52.4	174	435	793	1095	1202	1111	820	457	186	60.5	1.67	0.73	1.18	2.08	3.22	4.21	4.69
75	0.89	50.1	165	422	791	1101	1207	1120	822	447	177	58.0	1.58	0.79	1.36	2.50	3.88	5.04	5.54
80	0.86	47.2	155	395	753	1055	1155	1078	788	422	167	55.8	1.46	0.85	1.56	2.93	4.53	5.85	6.42
85	0.83	44.2	143	357	684	960	1051	985	720	384	155	53.0	1.36	0.91	1.81	3.37	5.17	6.61	7.25
90	0.74	40.9	131	312	594	830	908	855	629	338	143	49.8	1.21	0.99	2.10	3.83	5.78	7.35	8.01
95	0.79	38.0	119	267	498	688	751	710	530	291	130	46.8	1.23	1.11	2.39	4.25	6.34	8.02	8.69
100	0.86	35.0	90.9	202	399	551	601	570	431	247	114	43.6	0.99	1.28	2.69	4.63	6.78	8.46	9.09
105	0.86	22.0	56.8	76.0	294	433	475	451	346	122	78.7	35.2	0.89	1.43	2.97	5.07	7.47	9.04	9.51
110	0.86	9.22	53.1	44.6	77.5	73.1	115	83.6	91.3	88.0	74.2	18.6	0.94	1.60	3.17	5.26	7.71	9.40	9.94
115	0.93	4.71	52.0	101	39.9	78.0	126	87.8	40.3	127	68.9	8.78	0.99	1.70	3.23	5.31	7.23	9.09	9.42
120	0.97	2.15	24.1	91.3	167	185	159	179	178	114	45.9	3.31	0.98	1.78	3.32	5.16	6.69	8.02	8.40
125	0.93	3.98	2.88	81.0	135	206	223	211	144	99.2	9.70	2.44	0.96	1.70	2.96	4.89	5.93	7.21	7.24
130	0.92	4.72	0.88	32.4	115	171	185	175	123	47.3	2.13	3.55	0.89	1.61	2.65	4.11	5.13	5.88	6.02
135	0.78	4.22	0.71	3.77	42.2	122	148	134	55.3	3.44	0.74	3.29	0.69	1.49	2.36	3.45	4.48	5.20	5.10
140	0.74	2.55	0.50	0.66	3.83	28.7	49.8	33.9	2.46	0.54	0.54	3.16	0.63	1.36	2.15	3.05	3.86	4.44	4.52
145	0.67	1.77	0.32	0.47	0.53	0.47	0.65	0.43	0.45	0.42	0.41	3.07	0.61	1.25	1.89	2.72	3.36	3.72	3.73
150	0.67	1.84	0.55	0.30	0.26	0.25	0.28	0.22	0.37	0.36	0.54	3.64	0.61	1.58	1.70	2.42	3.13	3.28	3.76
155	0.67	1.03	3.99	0.25	0.16	0.11	0.17	0.14	0.24	0.33	3.86	2.62	0.61	1.18	1.64	1.99	2.47	3.14	2.88
160	0.67	0.62	3.17	7.78	3.63	3.19	0.73	2.11	2.72	4.52	4.55	0.88	0.62	0.93	1.26	1.69	1.94	2.25	2.43
165	0.67	0.54	1.63	3.45	7.47	7.10	7.60	7.34	8.06	3.99	2.50	0.77	0.61	0.87	1.11	1.43	1.59	1.69	1.72
170	0.66	0.52	0.42	1.59	3.69	5.91	5.62	5.30	2.67	1.82	0.52	0.65	0.60	0.76	0.92	1.14	1.26	1.38	1.34
175	0.61	0.57	0.46	0.45	0.37	0.39	0.36	0.41	0.41	0.51	0.55	0.68	0.61	0.69	0.73	0.86	0.90	0.97	0.94
180	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.68	0.68	0.60	0.61	0.61	0.62	0.61	0.61	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:0.1454A P:27.704W PF:0.8672 Freq:49.99Hz Lamp Flux:1590.41x1 lm		
NAME: HCP-2323002 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:

Table--2 UNIT: cd

C(DEG) / γ (DEG)	285	300	315	330	345														
0	1.24	1.27	1.37	1.49	1.61														
5	0.63	0.68	0.88	1.10	1.33														
10	0.55	0.61	0.74	0.86	1.16														
15	0.55	0.63	0.71	0.79	0.99														
20	0.61	0.66	0.70	0.75	0.89														
25	0.72	0.73	0.70	0.75	0.83														
30	0.79	0.80	0.73	0.77	0.81														
35	0.89	0.85	0.77	0.79	0.80														
40	1.03	0.94	0.80	0.80	0.80														
45	1.29	1.17	0.93	0.83	0.79														
50	1.68	1.46	1.15	0.90	0.79														
55	2.21	1.85	1.37	1.03	0.80														
60	2.79	2.30	1.67	1.17	0.86														
65	3.51	2.85	2.02	1.32	0.87														
70	4.37	3.50	2.40	1.49	0.92														
75	5.19	4.16	2.83	1.69	1.03														
80	6.02	4.78	3.24	1.94	1.11														
85	6.79	5.44	3.69	2.15	1.18														
90	7.48	5.98	4.13	2.39	1.24														
95	8.09	6.50	4.54	2.63	1.30														
100	8.44	6.75	4.75	2.86	1.43														
105	9.00	7.35	5.10	3.09	1.58														
110	9.39	7.53	5.31	3.21	1.71														
115	9.07	7.07	5.34	3.26	1.77														
120	7.82	6.49	4.82	3.23	1.87														
125	6.97	5.47	4.45	2.80	1.73														
130	5.54	4.62	3.52	2.40	1.67														
135	4.84	4.04	2.99	2.09	1.47														
140	4.09	3.37	2.58	1.83	1.31														
145	3.42	2.91	2.26	1.65	1.18														
150	3.09	2.74	2.10	1.43	1.34														
155	2.87	2.21	1.74	1.40	1.13														
160	2.24	1.78	1.51	1.18	0.96														
165	1.62	1.45	1.33	1.09	0.93														
170	1.30	1.18	1.09	0.96	0.87														
175	0.94	0.87	0.87	0.79	0.79														
180	0.63	0.62	0.65	0.68	0.71														

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: