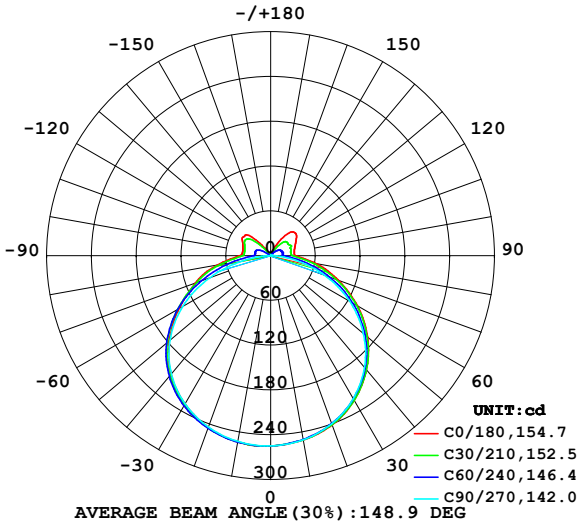
LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: HCP-3466251-RGBW	TYPE: 2835+2216	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

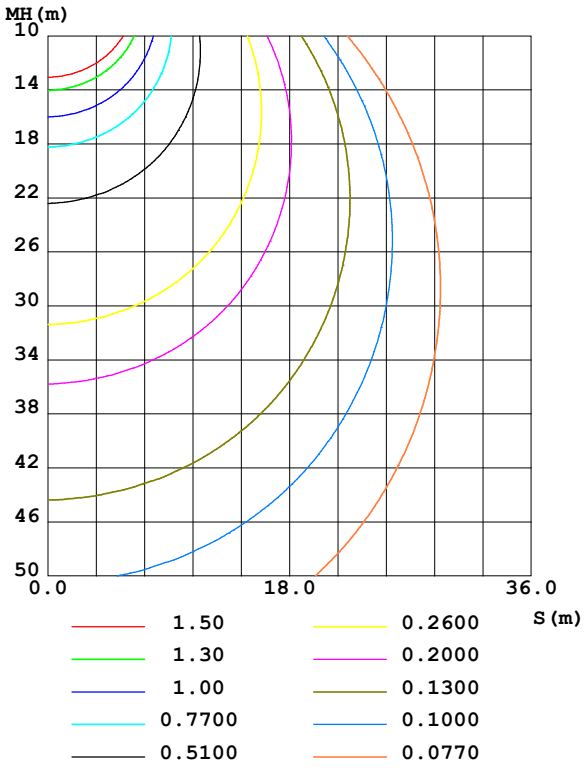
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 48.22 lm/W	
MODEL	HCP-3466251	Imax(cd)	255.4	S/MH(C0/180)	1.34
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.34
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	964.43	η UP,DN(C0-180)	5.7,43.3
NOMINAL FLUX(lm)	964.427	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	5.7,45.3
LAMPS INSIDE	1	η up(%)	11.4	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	η down(%)	88.6	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(30%):148.9 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [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	250.7	250.4	250.6	252.3	253.5	253.7	252.8	251.9	0- 10	24.20	24.20	2.51,2.51
20	241.3	240.1	239.8	243.0	244.9	245.8	244.4	243.1	10- 20	70.16	94.36	9.78,9.78
30	223.9	222.8	221.4	227.0	229.5	231.6	229.4	227.4	20- 30	108.7	203.1	21.1,21.1
40	199.6	198.4	195.7	204.0	207.6	210.6	207.0	204.7	30- 40	135.3	338.4	35.1,35.1
50	169.6	166.8	162.2	173.5	177.9	181.5	176.1	174.9	40- 50	146.2	484.6	50.2,50.2
60	134.1	129.9	122.3	135.8	141.7	143.9	136.0	138.1	50- 60	138.7	623.3	64.6,64.6
70	96.41	88.82	76.81	95.36	107.3	102.2	86.65	95.33	60- 70	114.0	737.3	76.4,76.4
80	61.33	49.98	30.94	56.59	72.43	61.00	34.26	51.52	70- 80	77.70	815.0	84.5,84.5
90	33.42	23.16	0.7483	28.18	41.36	30.26	0.5519	24.50	80- 90	39.41	854.4	88.6,88.6
100	32.32	21.89	0.2102	27.02	38.19	28.53	0.1692	20.48	90-100	24.72	879.1	91.2,91.2
110	34.72	22.39	0.2802	27.56	39.71	28.97	0.2334	24.37	100-110	24.24	903.3	93.7,93.7
120	39.34	22.16	0.3356	25.26	44.16	26.14	0.2976	24.39	110-120	23.50	926.8	96.1,96.1
130	44.88	19.49	0.3882	17.74	43.49	17.45	0.3460	21.55	120-130	19.66	946.5	98.1,98.1
140	41.14	12.74	0.4406	4.349	19.16	3.469	0.3939	12.70	130-140	12.47	959.0	99.4,99.4
150	20.00	5.020	0.4728	0.6753	1.342	0.6699	0.4312	3.888	140-150	4.176	963.1	99.9,99.9
160	3.230	1.766	0.5019	0.6157	0.4641	0.5464	0.4628	0.7728	150-160	1.022	964.2	100,100
170	0.6569	0.5544	0.5065	0.6006	0.4925	0.5400	0.4915	0.5549	160-170	0.2146	964.4	100,100
180	0.4960	0.5021	0.5077	0.5242	0.4902	0.5123	0.4961	0.5155	170-180	0.0508	964.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

0 - 60 DEG Zonal Flux:623.28 %lum: 64.6%
0 - 60 DEG Zonal Flux:623.28 %lum: 64.6%
All measured values may vary less than 35 %
from the average measured value in the 0 to 130 deg. zone: 16.9%
All measured values in the 0 to 130 deg. zone
may vary less than 50% from the average value of itself: 24.4%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-20

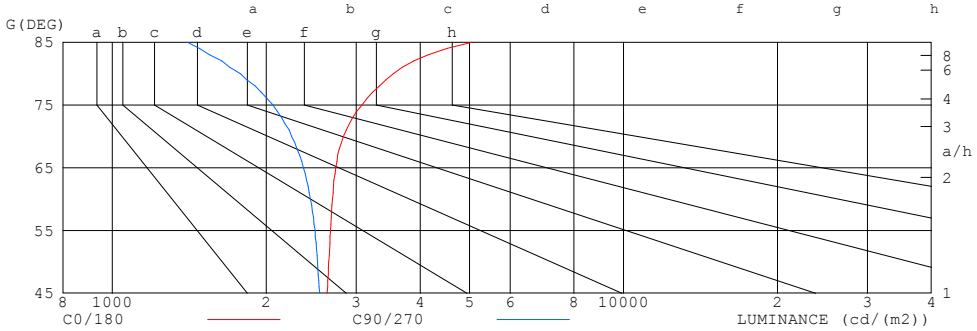
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: HCP-3466251-RGBW	**TYPE: 2835+2216**	**WEIGHT:**
SPEC.:	**DIM.: 1*0.012**	**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	5046	1403
80	3548	1779
75	3079	2061
70	2832	2242
65	2735	2365
60	2695	2442
55	2673	2492
50	2651	2519
45	2632	2544

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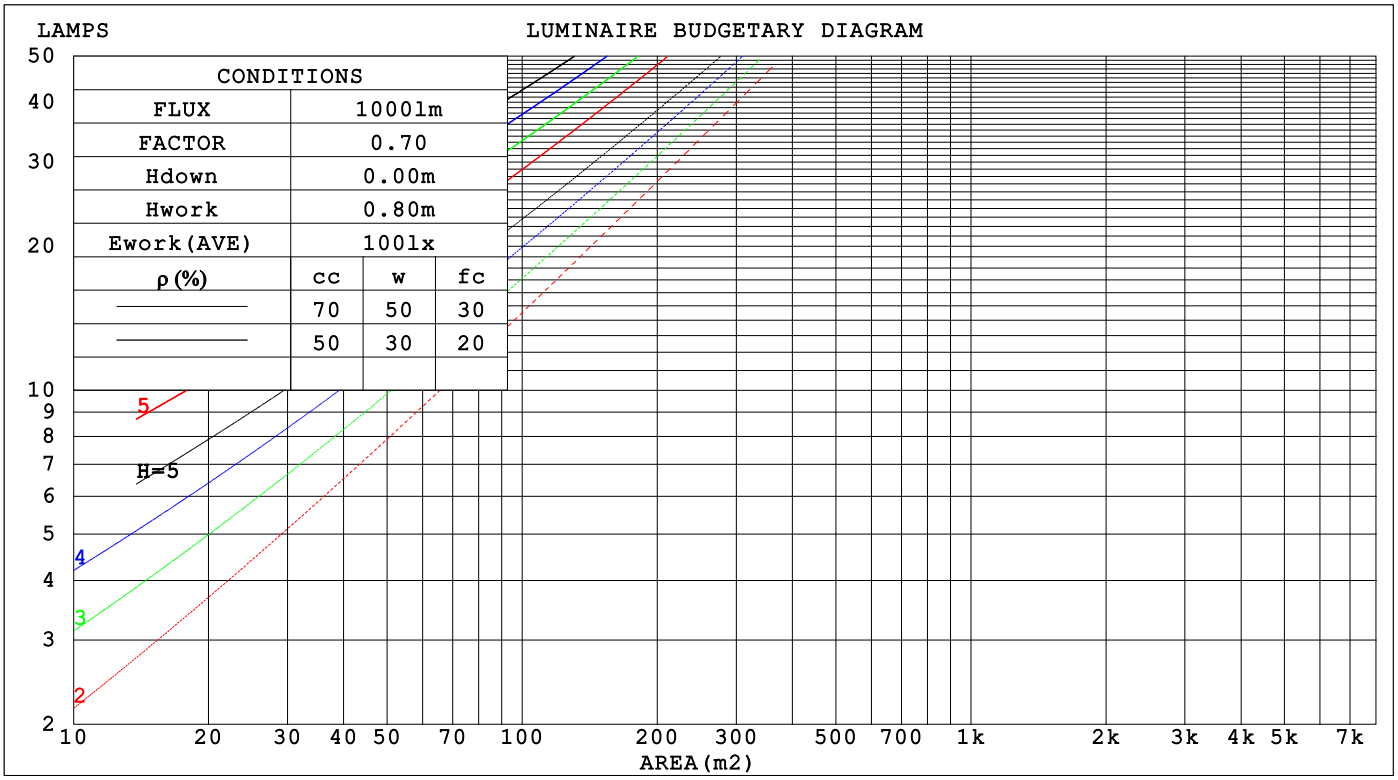
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: HCP-3466251-RGBW	TYPE: 2835+2216	WEIGHT:
SPEC.:	DIM.: 1*0.012	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	1.16	1.16	1.16	1.12	1.12	1.12	1.05	1.05	1.05	.98	.98	.98	.92	.92	.92	.89
1.0	.99	.95	.90	.96	.92	.88	.90	.86	.83	.84	.81	.78	.78	.76	.74	.71
2.0	.86	.78	.72	.83	.76	.71	.77	.72	.67	.72	.68	.64	.68	.64	.61	.58
3.0	.75	.66	.59	.72	.64	.58	.68	.61	.56	.63	.58	.53	.59	.55	.51	.48
4.0	.66	.57	.50	.64	.55	.49	.60	.53	.47	.56	.50	.45	.53	.47	.43	.41
5.0	.59	.49	.42	.57	.48	.42	.53	.46	.40	.50	.44	.39	.47	.42	.37	.35
6.0	.52	.43	.37	.51	.42	.36	.48	.40	.35	.45	.39	.34	.43	.37	.33	.30
7.0	.47	.38	.32	.46	.38	.32	.43	.36	.31	.41	.35	.30	.39	.33	.29	.27
8.0	.43	.34	.29	.42	.34	.28	.40	.32	.27	.38	.31	.26	.36	.30	.26	.24
9.0	.39	.31	.26	.38	.31	.25	.36	.29	.24	.35	.28	.24	.33	.27	.23	.21
10.0	.36	.28	.23	.35	.28	.23	.34	.27	.22	.32	.26	.21	.30	.25	.21	.19



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: HCP-3466251-RGBW	TYPE: 2835+2216	WEIGHT:
SPEC.:	DIM.: 1*0.012	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	.342	.194	.062	.331	.189	.060	.312	.179	.057	.293	.169	.054	.276	.160	.052	
2.0	.310	.170	.052	.300	.165	.051	.282	.157	.049	.266	.149	.047	.251	.142	.045	
3.0	.282	.150	.045	.273	.146	.044	.257	.139	.042	.242	.133	.041	.228	.126	.039	
4.0	.257	.134	.039	.249	.130	.039	.235	.124	.037	.221	.119	.036	.209	.113	.035	
5.0	.236	.120	.035	.229	.117	.034	.216	.112	.033	.203	.107	.032	.192	.103	.031	
6.0	.217	.109	.031	.211	.107	.031	.199	.102	.030	.188	.098	.029	.178	.094	.028	
7.0	.201	.100	.028	.196	.098	.028	.185	.093	.027	.175	.090	.026	.165	.086	.025	
8.0	.188	.092	.026	.182	.090	.025	.172	.086	.025	.163	.083	.024	.154	.079	.023	
9.0	.175	.085	.024	.171	.083	.023	.161	.080	.023	.153	.077	.022	.145	.074	.021	
10.0	.164	.079	.022	.160	.077	.022	.152	.074	.021	.144	.071	.020	.136	.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	.277	.277	.277	.237	.237	.237	.162	.162	.162	.093	.093	.093	.030	.030	.030	
1.0	.270	.244	.219	.231	.209	.189	.158	.144	.131	.091	.083	.076	.029	.027	.025	
2.0	.263	.220	.184	.225	.189	.159	.154	.131	.111	.089	.076	.065	.029	.025	.021	
3.0	.255	.203	.161	.219	.175	.140	.150	.122	.098	.087	.071	.058	.028	.023	.019	
4.0	.248	.190	.146	.213	.164	.127	.146	.115	.089	.085	.067	.053	.027	.022	.017	
5.0	.240	.180	.136	.206	.156	.118	.142	.109	.083	.082	.064	.049	.027	.021	.016	
6.0	.233	.172	.128	.200	.149	.112	.138	.104	.079	.080	.061	.047	.026	.020	.016	
7.0	.226	.165	.123	.195	.143	.107	.135	.101	.076	.078	.059	.045	.025	.019	.015	
8.0	.220	.160	.119	.189	.139	.103	.131	.097	.073	.076	.057	.044	.025	.019	.014	
9.0	.214	.155	.115	.184	.134	.101	.128	.095	.071	.074	.056	.043	.024	.018	.014	
10.0	.208	.151	.113	.179	.131	.098	.124	.092	.070	.073	.054	.042	.024	.018	.014	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: HCP-3466251-RGBW	TYPE: 2835+2216	WEIGHT:
SPEC.:	DIM.: 1*0.012	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	15.7	17.2	16.2	17.6	18.0	15.4	16.8	15.8	17.2	17.6
	3H	17.6	18.9	18.1	19.4	19.8	16.9	18.2	17.4	18.7	19.1
	4H	18.6	19.8	19.0	20.3	20.8	17.5	18.8	18.0	19.2	19.7
	6H	19.5	20.7	20.0	21.1	21.6	18.0	19.1	18.5	19.6	20.1
	8H	19.9	21.1	20.4	21.5	22.1	18.1	19.2	18.6	19.7	20.2
	12H	20.4	21.5	20.9	22.0	22.5	18.1	19.2	18.7	19.7	20.3
4H	2H	16.4	17.6	16.8	18.0	18.5	16.1	17.3	16.5	17.8	18.2
	3H	18.4	19.5	19.0	20.0	20.6	17.8	18.9	18.3	19.4	19.9
	4H	19.5	20.5	20.1	21.0	21.6	18.6	19.6	19.1	20.1	20.7
	6H	20.6	21.5	21.2	22.1	22.7	19.1	20.0	19.7	20.6	21.2
	8H	21.2	22.0	21.8	22.6	23.2	19.3	20.1	19.9	20.7	21.3
	12H	21.7	22.5	22.3	23.1	23.7	19.4	20.2	20.0	20.8	21.4
8H	4H	19.8	20.7	20.4	21.2	21.8	19.0	19.8	19.6	20.4	21.0
	6H	21.2	21.8	21.8	22.4	23.1	19.8	20.5	20.4	21.1	21.7
	8H	21.9	22.5	22.5	23.1	23.8	20.1	20.7	20.7	21.3	22.0
	12H	22.6	23.2	23.3	23.8	24.5	20.3	20.8	21.0	21.5	22.2
12H	4H	19.8	20.6	20.4	21.2	21.8	19.1	19.8	19.7	20.4	21.1
	6H	21.2	21.9	21.9	22.5	23.2	20.0	20.6	20.6	21.2	21.9
	8H	22.0	22.6	22.7	23.2	23.9	20.3	20.9	21.0	21.5	22.2

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 0.1 / - 0.1	+ 0.1 / - 0.2
1.5H	+ 0.2 / - 0.3	+ 0.2 / - 0.3
2.0H	+ 0.1 / - 0.3	+ 0.1 / - 0.4

CIE Pub.117, 964.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.1)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
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Temperature:25.3DEG
Operators:zhuo
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: HCP-3466251-RGBW	TYPE: 2835+2216	WEIGHT:
SPEC.:	DIM.: 1*0.012	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	52	40	32	51	39	32	49	38	32	25
0.80	61	49	41	60	48	41	57	47	40	33
1.00	69	57	49	68	56	49	65	57	48	40
1.25	77	65	57	74	64	56	71	62	55	46
1.50	82	71	63	79	69	62	75	66	60	51
2.00	89	79	72	86	77	70	81	74	68	58
2.50	93	84	77	90	82	76	85	78	73	62
3.00	97	89	82	94	86	80	88	82	77	65
4.00	101	94	89	98	92	87	92	87	83	70
5.00	104	98	93	100	95	91	94	90	86	73
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
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Remarks:

ISOCANDELA DIAGRAM

NAME: HCP-3466251-RGBW	TYPE: 2835+2216	WEIGHT:
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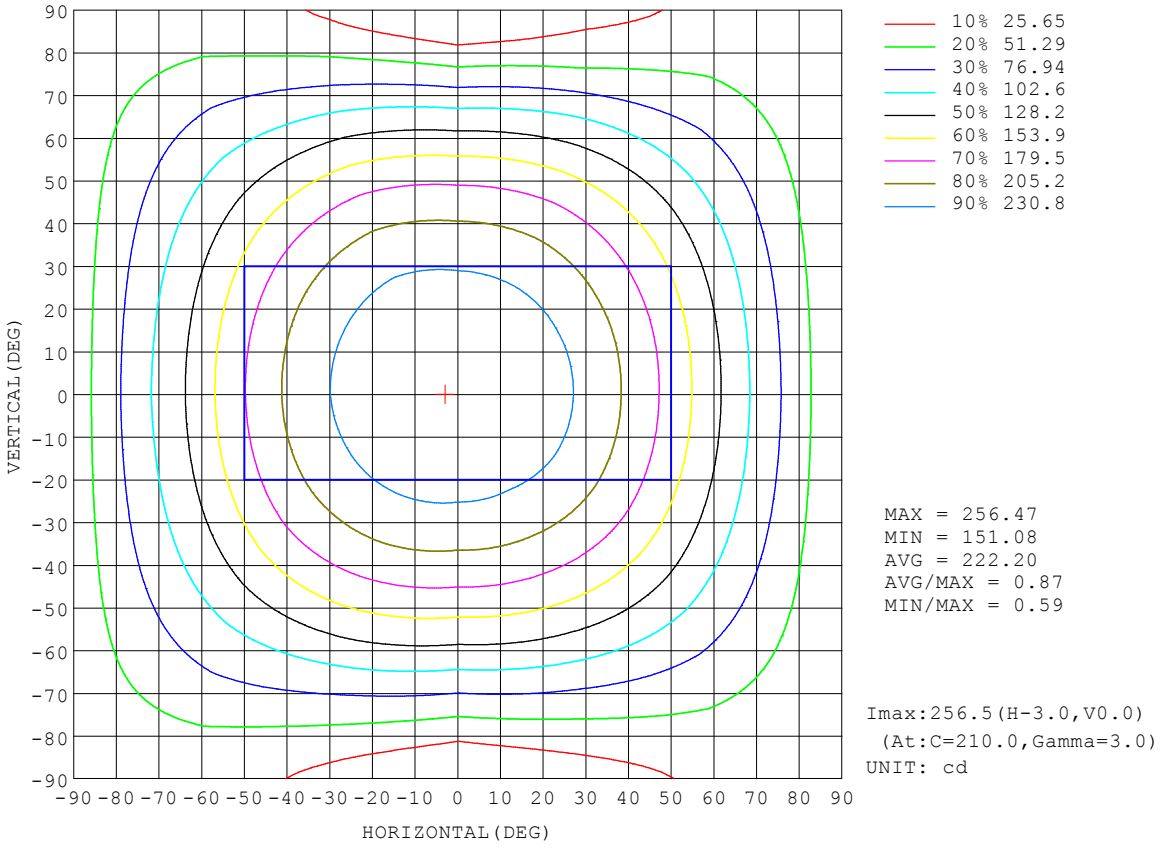
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:



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AAI Figure

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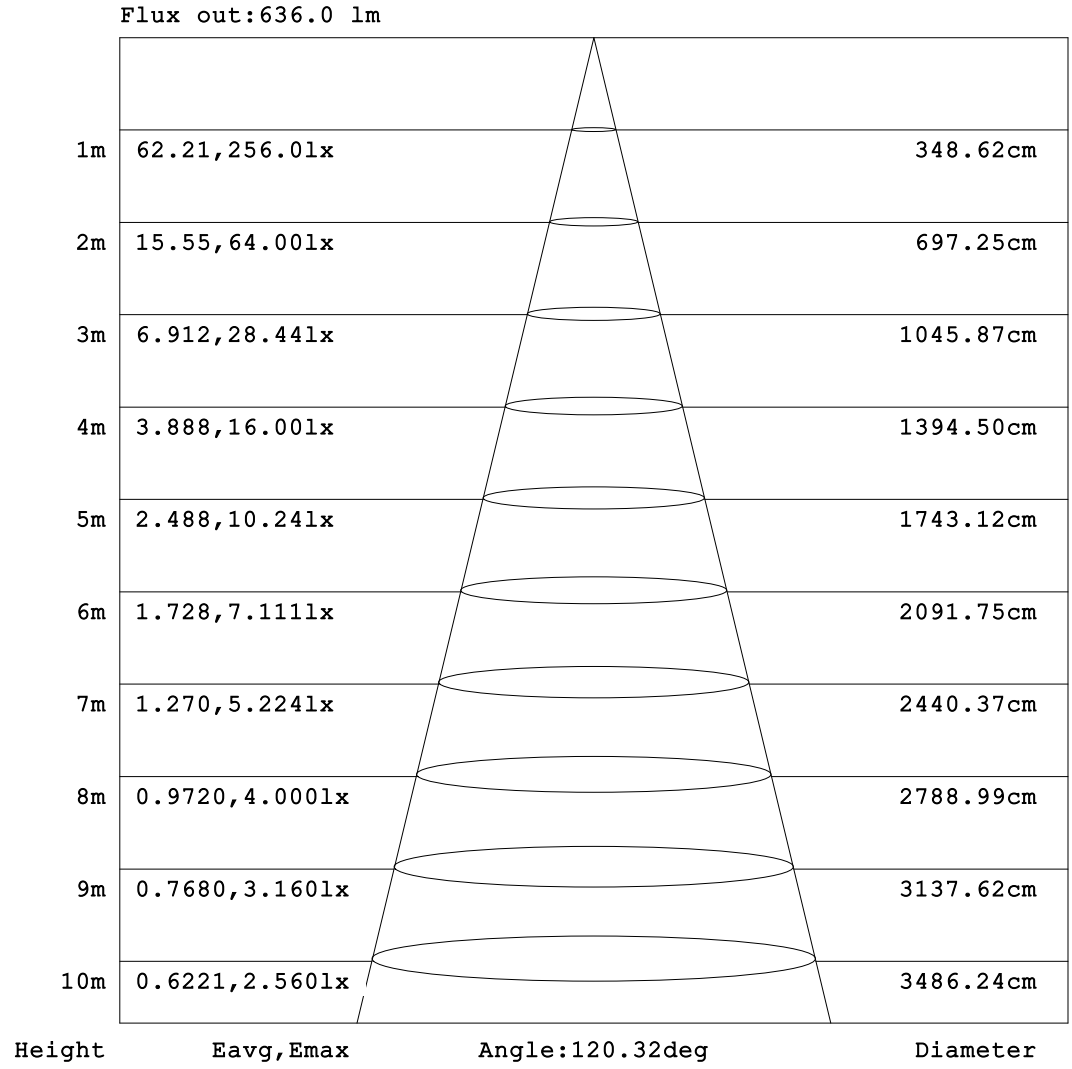

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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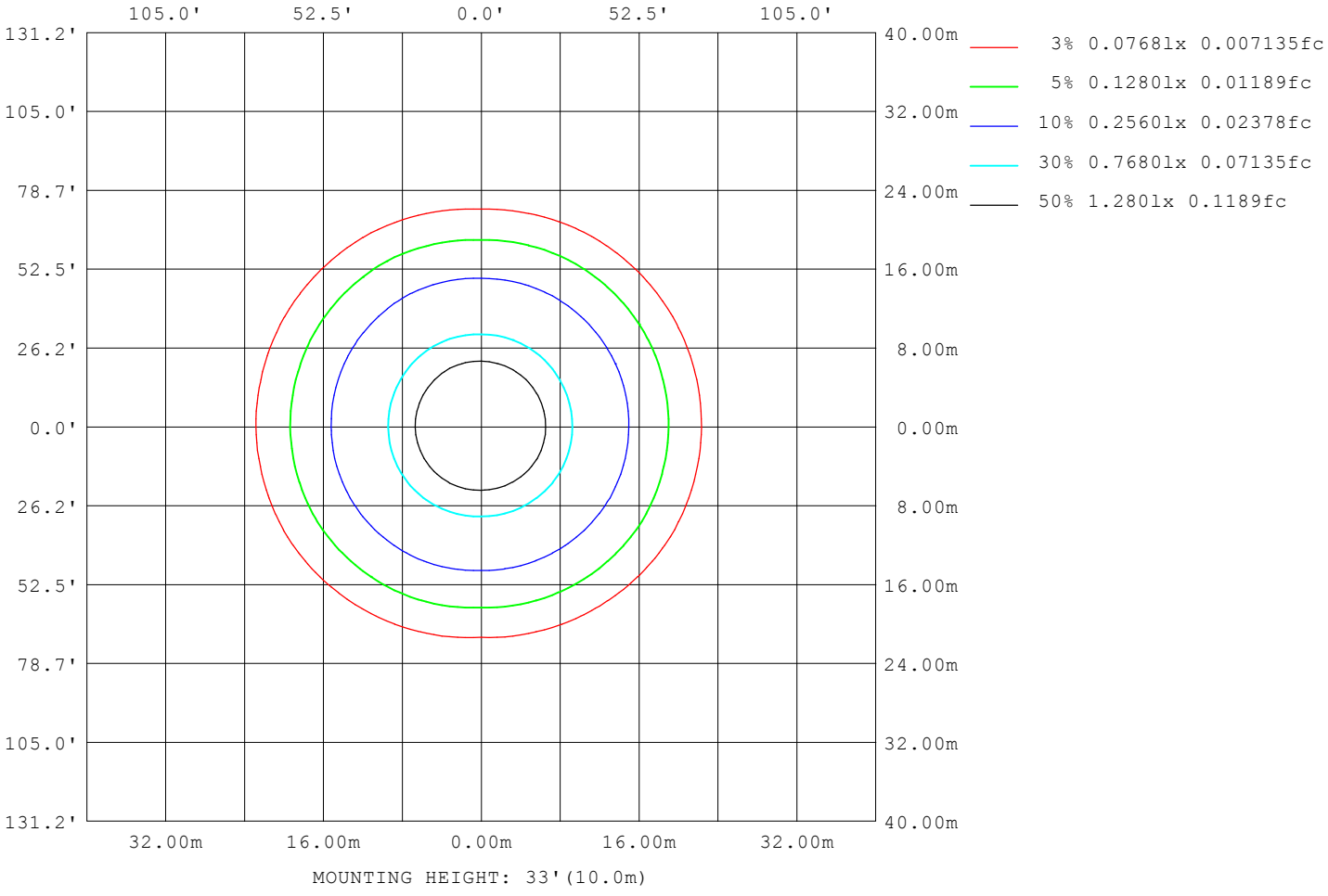
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: HCP-3466251-RGBW	TYPE: 2835+2216	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

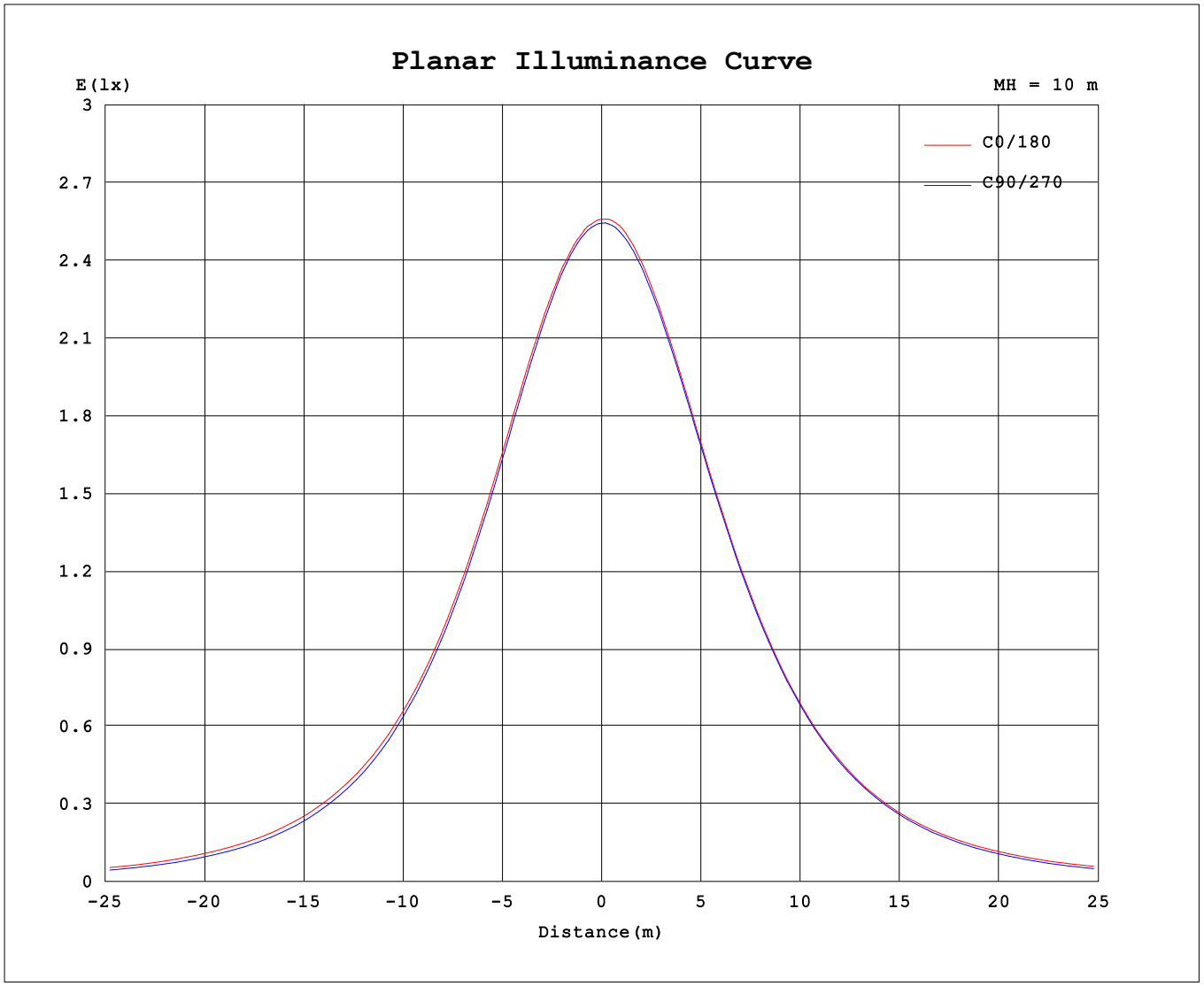
AvgL	cd/m2
L_0~180(65)av	2821
L_0~180(75)av	3305
L_0~180(85)av	5597
L_90~270(65)av	2514
L_90~270(75)av	2195
L_90~270(85)av	1438
L_45(65)av	2763
L_45(75)av	2906
L_45(85)av	4346

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: HCP-3466251-RGBW	TYPE: 2835+2216	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0	255	255	255	255	255	255	255	255	255	255	255	255
5	253	253	253	253	254	255	255	255	255	255	254	254
10	251	251	250	251	252	253	253	254	254	253	252	252
15	247	247	246	246	248	249	250	251	250	249	249	248
20	241	241	239	240	242	244	245	246	246	244	244	243
25	234	233	231	232	235	237	238	239	240	238	237	235
30	224	224	222	221	226	228	230	231	232	229	228	226
35	213	213	210	210	214	218	219	221	223	219	218	215
40	200	200	197	196	202	206	208	210	211	207	206	203
45	185	185	182	180	187	193	193	196	198	193	193	189
50	170	169	165	162	170	177	178	181	182	176	177	173
55	153	151	147	143	152	158	160	163	164	157	158	156
60	134	133	127	122	132	140	142	144	144	136	138	138
65	115	113	106	100	111	120	123	124	122	112	117	117
70	96.4	93.4	84.2	76.8	89.0	102	107	106	98.6	86.6	93.6	97.1
75	79.3	74.9	62.8	53.4	67.9	84.6	91.7	88.4	75.3	60.2	66.5	77.7
80	61.3	57.1	42.9	30.9	47.7	65.5	72.4	68.8	53.2	34.3	43.9	59.1
85	43.8	40.0	26.4	12.2	30.2	47.6	53.8	49.4	33.7	12.8	28.2	41.1
90	33.4	29.6	16.7	0.75	20.2	36.1	41.4	37.7	22.8	0.55	18.3	30.7
95	31.9	27.6	16.2	0.19	19.4	34.3	38.4	35.6	21.5	0.17	14.4	28.9
100	32.3	27.3	16.5	0.21	19.6	34.5	38.2	35.6	21.5	0.17	17.7	23.3
105	33.2	28.7	16.6	0.25	19.7	34.9	38.7	36.1	21.5	0.21	18.0	27.1
110	34.7	28.9	15.9	0.28	19.3	35.8	39.7	37.1	20.9	0.23	17.7	31.0
115	36.7	31.0	15.5	0.31	16.9	37.3	41.6	38.8	18.0	0.27	17.6	32.6
120	39.3	29.4	14.9	0.34	11.7	38.9	44.2	40.2	12.1	0.30	17.0	31.8
125	42.4	28.7	13.2	0.36	4.26	38.5	44.3	39.1	4.16	0.32	15.5	31.3
130	44.9	28.6	10.4	0.39	1.34	34.1	43.5	33.4	1.52	0.35	12.5	30.6
135	44.7	26.5	7.41	0.41	0.70	23.0	34.9	20.2	0.71	0.37	7.84	27.8
140	41.1	20.4	5.04	0.44	0.58	8.11	19.2	6.39	0.54	0.39	4.08	21.3
145	31.0	12.9	3.40	0.46	0.58	1.91	5.10	1.96	0.51	0.41	1.81	13.7
150	20.0	7.70	2.33	0.47	0.58	0.77	1.34	0.83	0.51	0.43	0.57	7.21
155	10.7	4.44	1.57	0.48	0.58	0.66	0.54	0.61	0.51	0.44	0.47	3.35
160	3.23	2.44	1.09	0.50	0.58	0.65	0.46	0.58	0.51	0.46	0.58	0.97
165	1.55	1.27	0.75	0.51	0.58	0.64	0.48	0.58	0.51	0.49	0.72	0.52
170	0.66	0.59	0.52	0.51	0.58	0.62	0.49	0.57	0.51	0.49	0.57	0.54
175	0.50	0.52	0.51	0.51	0.56	0.58	0.49	0.55	0.51	0.49	0.53	0.53
180	0.50	0.50	0.51	0.51	0.53	0.52	0.49	0.51	0.51	0.50	0.51	0.53

C Range: 0 - 360DEG
C Interval: 30.0DEG
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γ Range: 0 - 180DEG
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