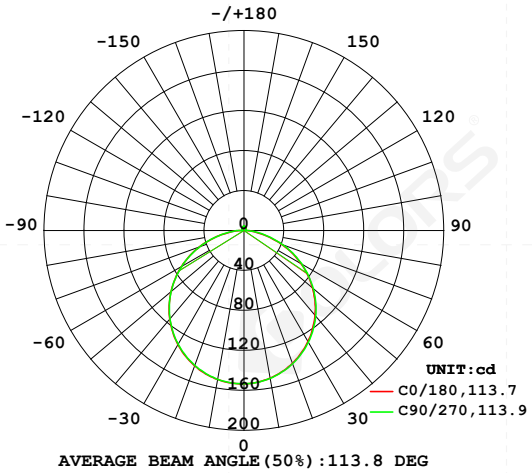
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.4445A P:10.67W PF:1.000 Freq:0Hz Lamp Flux:464.046x1 lm		
NAME: HCP-36620202	TYPE:	WEIGHT:
SPEC.:HCP-36620202	DIM.: 1000*20*20mm	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:1000*20mm	Shielding Angle:

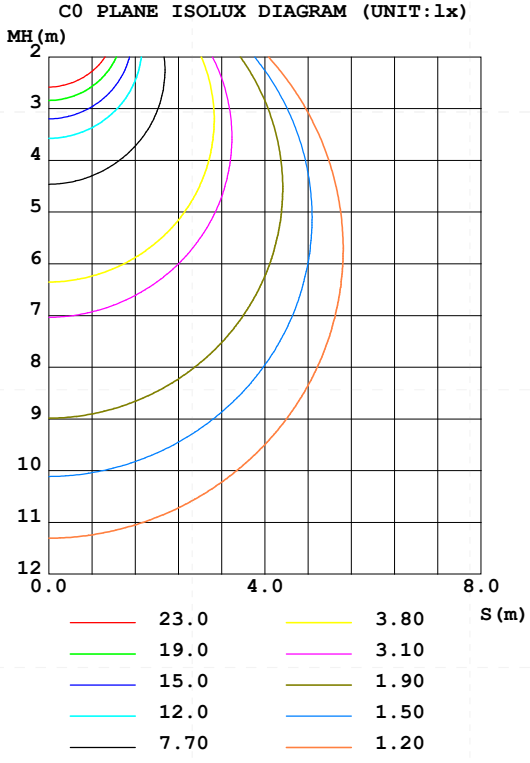
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 43.49 lm/W	
MODEL	HCP-36620202	max(cd)	153.4	S/MH(C0/180)	1.24
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	464.05	UP,DN(C0-180)	1.9,46.8
NOMINAL FLUX(lm)	464.046	CIE CLASS	DIRECT	UP,DN(C180-360)	1.8,49.4
LAMPS INSIDE	1	up(%)	3.7	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	down(%)	96.3	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):113.8 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2023-07-08

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.375m [K=1.0000]
Remarks:

E:\ ! " # \20230906\IES\GMT2020\HCP-36620202-9LW24CSW025CC$1%& \HCP-36620202\HCP-36620202.GOS

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	150.1	150.3	150.3	150.6	151.4	151.3	151.2	150.9	0- 10	14.52	14.52	3.13,3.13
20	141.5	142.0	142.0	142.7	144.2	143.8	143.8	143.1	10- 20	41.62	56.14	12.1,12.1
30	128.2	128.8	129.0	129.9	132.0	131.7	131.6	130.6	20- 30	63.21	119.3	25.7,25.7
40	110.6	111.5	111.7	113.0	115.7	115.2	115.3	113.9	30- 40	76.50	195.8	42.2,42.2
50	89.55	90.36	90.58	92.26	95.57	95.09	95.24	93.51	40- 50	79.80	275.6	59.4,59.4
60	65.56	66.11	66.54	68.42	72.34	71.95	72.02	70.15	50- 60	72.61	348.3	75,75
70	39.61	40.35	40.72	42.42	46.77	46.54	46.79	44.47	60- 70	55.81	404.1	87.1,87.1
80	14.81	16.81	16.09	17.03	20.79	21.46	21.50	18.97	70- 80	32.32	436.4	94,94
90	2.057	3.401	3.490	2.563	3.350	5.305	5.581	3.342	80- 90	10.45	446.8	96.3,96.3
100	1.601	2.340	2.279	2.009	1.277	2.453	1.792	1.781	90-100	2.592	449.4	96.8,96.8
110	2.176	2.573	1.962	2.465	1.697	1.949	1.445	2.057	100-110	2.037	451.5	97.3,97.3
120	2.686	2.801	2.291	2.807	2.255	2.189	1.973	2.310	110-120	2.210	453.7	97.8,97.8
130	3.226	3.010	2.818	3.052	2.848	2.620	2.561	2.482	120-130	2.342	456.0	98.3,98.3
140	3.573	3.496	3.327	3.424	3.310	3.213	3.125	3.051	130-140	2.374	458.4	98.8,98.8
150	4.011	3.802	3.724	3.826	3.760	3.724	3.634	3.616	140-150	2.218	460.6	99.3,99.3
160	4.237	4.162	4.089	4.126	4.090	4.064	4.048	4.035	150-160	1.818	462.4	99.6,99.6
170	4.500	4.419	4.323	4.402	4.432	4.317	4.347	4.293	160-170	1.200	463.6	99.9,99.9
180	4.593	4.557	4.509	4.509	4.599	4.515	4.521	4.503	170-180	0.4250	464.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2023-07-08

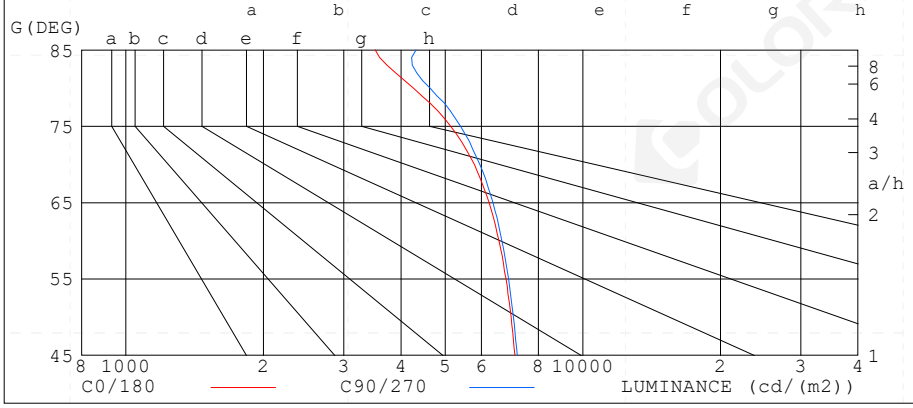
Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.375m [K=1.0000]
Remarks:

E:\ ! " # \20230906\IES\GMT2020\HCP-36620202-9LW24CSW025CC$1%& \HCP-36620202\HCP-36620202.GOS

LUMINANCE LIMITATION CURVES

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	3510	4316
80	4264	4634
75	5139	5403
70	5790	5953
65	6235	6356
60	6556	6654
55	6791	6878
50	6966	7046
45	7106	7185

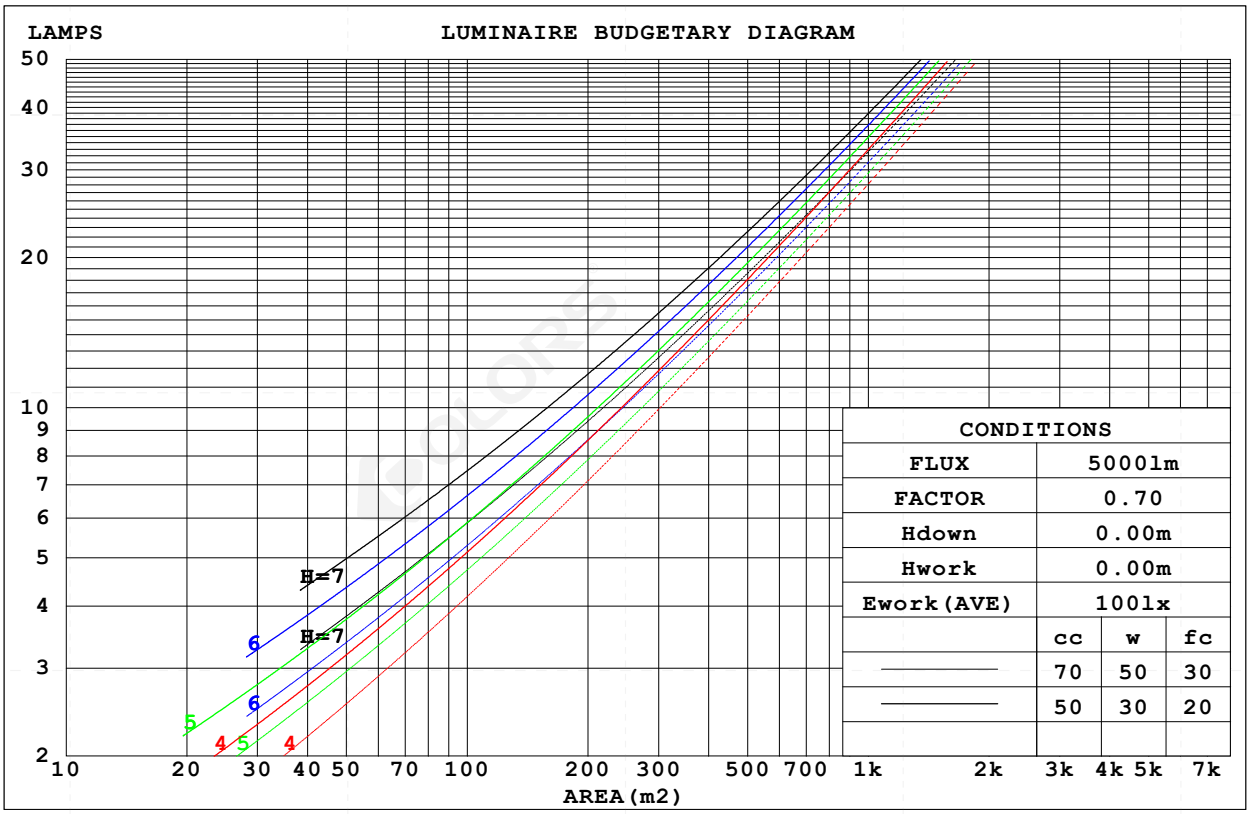
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2023-07-08

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.375m [K=1.0000]
Remarks:

E:\ ! " # \20230906\IES\GMT2020\HCP-36620202-9LW24CSW025CC$1%& \HCP-36620202\HCP-36620202.GOS

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.04	1.04	1.04	.99	.99	.99	.96
1.0	1.03	.98	.94	1.00	.96	.93	.95	.92	.89	.91	.88	.86	.86	.84	.82	.80
2.0	.89	.82	.77	.87	.81	.75	.83	.78	.73	.79	.75	.71	.76	.72	.69	.66
3.0	.78	.70	.63	.76	.69	.63	.73	.66	.61	.70	.64	.60	.67	.62	.58	.56
4.0	.69	.60	.54	.68	.59	.53	.65	.58	.52	.62	.56	.51	.59	.54	.50	.47
5.0	.62	.53	.46	.60	.52	.46	.58	.50	.45	.56	.49	.44	.53	.48	.43	.41
6.0	.56	.47	.40	.54	.46	.40	.52	.45	.39	.50	.44	.38	.48	.42	.38	.36
7.0	.50	.42	.35	.49	.41	.35	.47	.40	.35	.46	.39	.34	.44	.38	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.43	.36	.31	.42	.35	.30	.40	.34	.30	.28
9.0	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.27	.37	.31	.27	.25
10.0	.39	.31	.26	.38	.31	.25	.37	.30	.25	.36	.29	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2023-07-08

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.375m [K=1.0000]
Remarks:

E:\ ! " # \20230906\IES\GMT2020\HCP-36620202-9LW24CSW025CC$1%& \HCP-36620202\HCP-36620202.GOS

WEC AND CCEC

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.314	.179	.057	.306	.175	.055	.291	.167	.053	.276	.159	.051	.263	.153	.049	
2.0	.294	.161	.049	.286	.158	.049	.273	.152	.047	.260	.146	.046	.248	.141	.044	
3.0	.271	.144	.043	.264	.142	.043	.252	.137	.042	.241	.132	.041	.231	.128	.040	
4.0	.250	.130	.038	.244	.128	.038	.233	.124	.037	.223	.120	.036	.213	.116	.035	
5.0	.230	.117	.034	.225	.116	.034	.216	.112	.033	.207	.109	.032	.198	.106	.032	
6.0	.214	.107	.031	.209	.106	.030	.200	.103	.030	.192	.100	.029	.184	.097	.029	
7.0	.199	.098	.028	.195	.097	.028	.187	.094	.027	.179	.092	.027	.172	.090	.026	
8.0	.185	.091	.025	.182	.089	.025	.175	.087	.025	.168	.085	.025	.162	.083	.024	
9.0	.174	.084	.023	.170	.083	.023	.164	.081	.023	.158	.079	.023	.152	.077	.022	
10.0	.163	.078	.022	.160	.077	.022	.154	.076	.021	.149	.074	.021	.144	.072	.021	

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.219	.219	.219	.187	.187	.187	.128	.128	.128	.073	.073	.073	.023	.023	.023	
1.0	.209	.185	.163	.179	.158	.140	.122	.109	.097	.070	.063	.056	.023	.020	.018	
2.0	.201	.161	.126	.172	.138	.109	.118	.096	.076	.068	.056	.045	.022	.018	.015	
3.0	.194	.143	.103	.166	.123	.089	.114	.086	.063	.066	.050	.037	.021	.016	.012	
4.0	.186	.130	.087	.160	.112	.076	.110	.078	.053	.063	.046	.032	.020	.015	.010	
5.0	.179	.120	.076	.153	.104	.066	.106	.072	.047	.061	.042	.028	.020	.014	.009	
6.0	.171	.111	.068	.147	.096	.059	.102	.068	.042	.059	.040	.025	.019	.013	.008	
7.0	.165	.105	.062	.142	.091	.054	.098	.064	.039	.057	.037	.023	.018	.012	.008	
8.0	.158	.099	.058	.136	.086	.051	.094	.060	.036	.055	.035	.021	.018	.012	.007	
9.0	.152	.094	.055	.131	.081	.048	.091	.057	.034	.053	.034	.020	.017	.011	.007	
10.0	.146	.090	.052	.126	.078	.045	.088	.055	.032	.051	.032	.019	.017	.011	.006	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2023-07-08

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.375m [K=1.0000]
Remarks:

E:\ ! " # \20230906\IES\GMT2020\HCP-36620202-9LW24CSW025CC$1%& \HCP-36620202\HCP-36620202.GOS

UGR(Unified Glare Rating) Table

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	21.9	23.3	22.2	23.6	23.9	21.9	23.4	22.2	23.7	23.9
	3H	23.3	24.7	23.7	25.0	25.3	23.4	24.7	23.7	25.0	25.4
	4H	23.8	25.1	24.2	25.4	25.8	23.9	25.2	24.3	25.6	25.9
	6H	24.2	25.4	24.6	25.7	26.1	24.3	25.5	24.7	25.9	26.2
	8H	24.2	25.4	24.6	25.8	26.1	24.4	25.6	24.8	25.9	26.3
	12H	24.3	25.4	24.7	25.8	26.2	24.5	25.6	24.9	26.0	26.4
4H	2H	22.5	23.7	22.8	24.1	24.4	22.5	23.8	22.9	24.1	24.4
	3H	24.1	25.2	24.5	25.6	25.9	24.1	25.3	24.5	25.6	26.0
	4H	24.7	25.7	25.1	26.1	26.5	24.8	25.8	25.2	26.2	26.6
	6H	25.2	26.1	25.6	26.5	26.9	25.3	26.2	25.8	26.6	27.1
	8H	25.3	26.1	25.8	26.6	27.0	25.5	26.3	25.9	26.7	27.2
	12H	25.4	26.2	25.9	26.6	27.1	25.6	26.4	26.1	26.8	27.3
8H	4H	25.0	25.8	25.4	26.2	26.7	25.0	25.9	25.5	26.3	26.8
	6H	25.5	26.3	26.0	26.7	27.2	25.7	26.4	26.2	26.9	27.4
	8H	25.8	26.4	26.3	26.9	27.4	25.9	26.5	26.4	27.0	27.6
	12H	25.9	26.4	26.4	27.0	27.5	26.1	26.7	26.6	27.2	27.7
12H	4H	25.0	25.7	25.4	26.2	26.7	25.0	25.8	25.5	26.3	26.8
	6H	25.6	26.2	26.1	26.7	27.2	25.7	26.4	26.2	26.8	27.4
	8H	25.8	26.4	26.4	26.9	27.5	26.0	26.5	26.5	27.1	27.6
Variations with the observer position at spacings:											
S = 1.0H		+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 464.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.7)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2023-07-08

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.375m [K=1.0000]
Remarks:

E:\ ! " # \20230906\IES\GMT2020\HCP-36620202-9LW24CSW025CC$1%& \HCP-36620202\HCP-36620202.GOS

UTILIZATION FACTORS TABLE

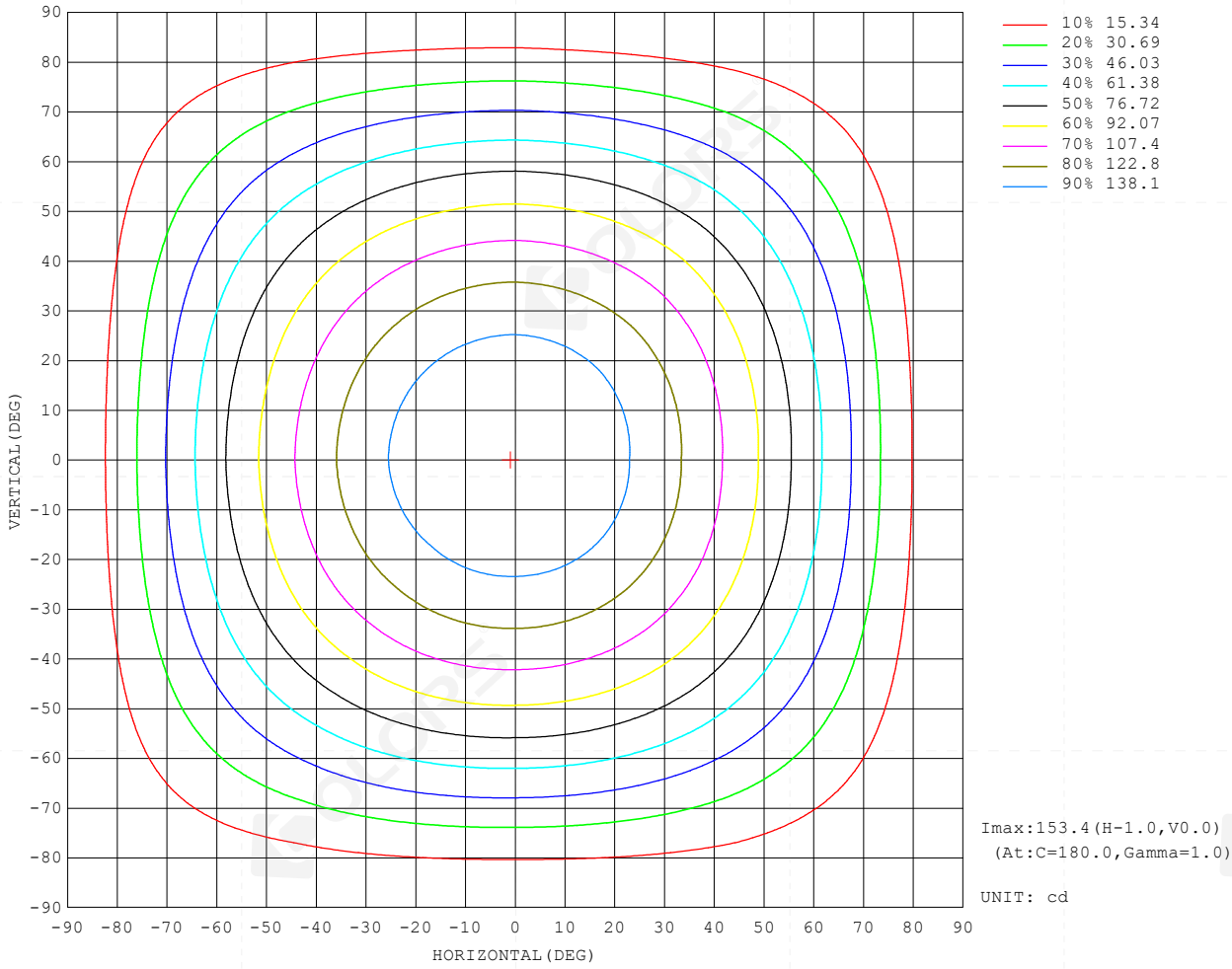
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	56	44	37	55	44	37	54	43	37	30
0.80	66	54	47	65	54	47	63	53	46	39
1.00	74	63	56	73	62	55	70	63	55	47
1.25	81	71	63	80	70	63	77	68	62	54
1.50	86	76	69	85	75	69	81	73	67	59
2.00	93	85	78	91	83	77	87	81	75	67
2.50	97	89	83	95	88	82	91	85	80	71
3.00	101	94	88	98	92	87	94	88	84	75
4.00	105	99	94	102	97	92	97	93	89	79
5.00	107	102	98	105	100	96	99	96	93	82
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2023-07-08

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.375m [K=1.0000]
Remarks:

E:\ ! " # \20230906\IES\GMT2020\HCP-36620202-9LW24CSW025CC$1%& \HCP-36620202\HCP-36620202.GOS

ISOCANDELA DIAGRAM



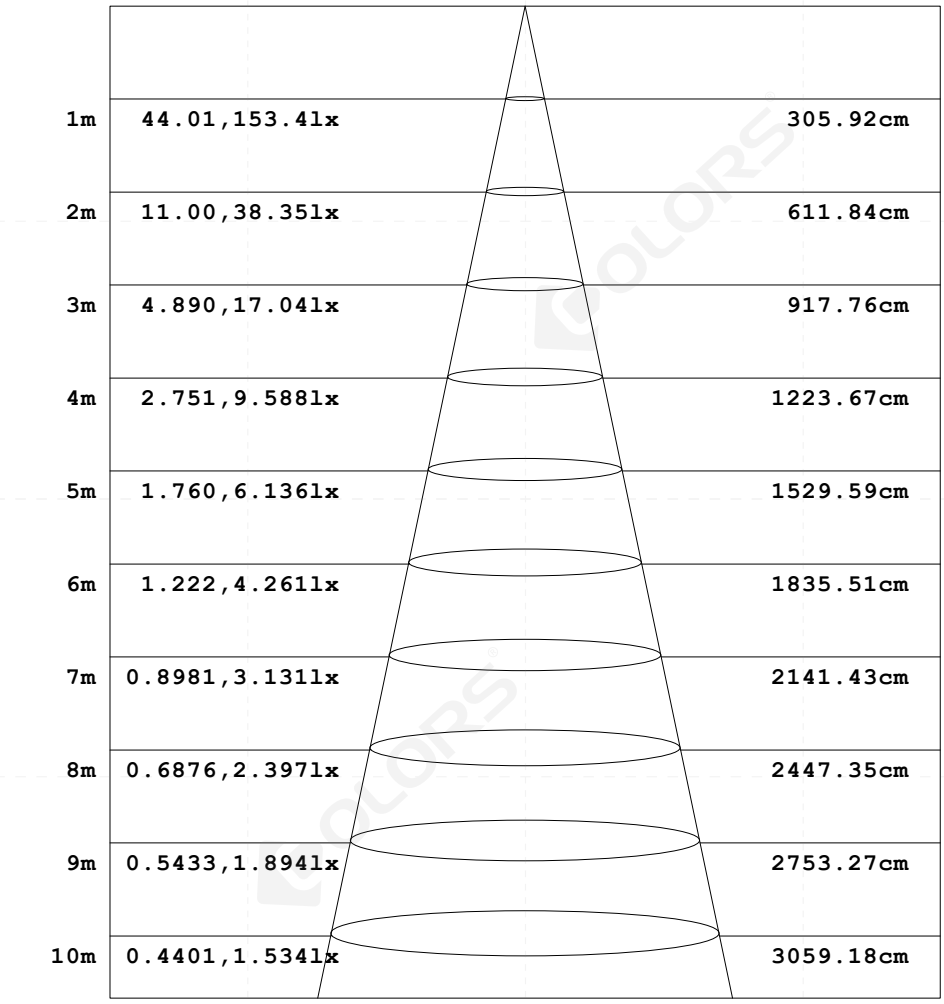
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2023-07-08

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.375m [K=1.0000]
Remarks:

E:\ ! " # \20230906\IES\GMT2020\HCP-36620202-9LW24CSW025CC$1%& \HCP-36620202\HCP-36620202.GOS

AAI Figure

Flux out:327.8 lm



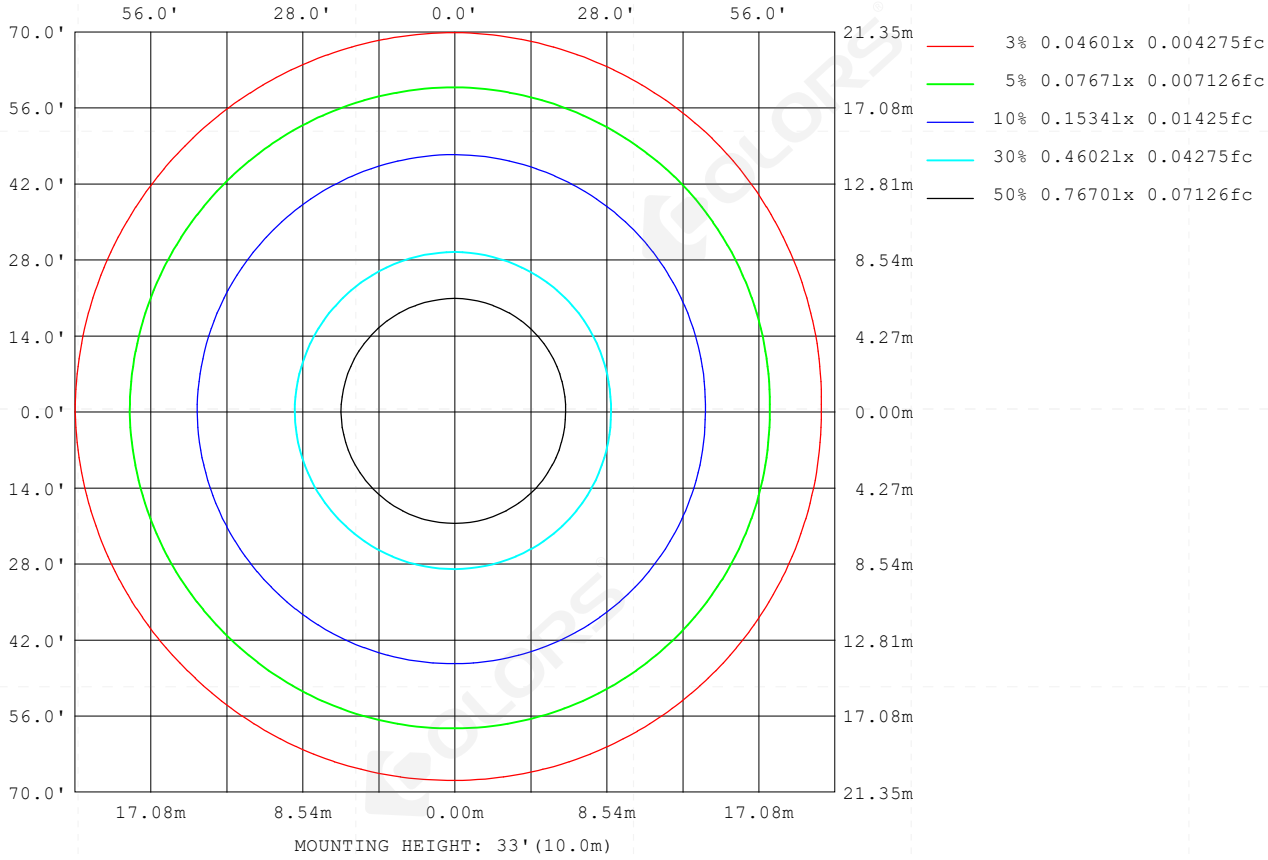
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2023-07-08

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.375m [K=1.0000]
Remarks:

E:\ ! " # \20230906\IES\GMT2020\HCP-36620202-9LW24CSW025CC$1%& \HCP-36620202\HCP-36620202.GOS

ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2023-07-08

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.375m [K=1.0000]
Remarks:

E:\ ! " # \20230906\IES\GMT2020\HCP-36620202-9LW24CSW025CC$1%& \HCP-36620202\HCP-36620202.GOS

LED Avg.L Report

Test:U:24.00V I:0.4445A P:10.67W PF:1.000 Freq:0Hz Lamp Flux:464.046x1 lm		
NAME: HCP-36620202	TYPE:	WEIGHT:
SPEC.:HCP-36620202	DIM.: 1000*20*20mm	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:1000*20mm	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	6653
L_0~180(75)av	5805
L_0~180(85)av	4639
L_90~270(65)av	6704
L_90~270(75)av	5966
L_90~270(85)av	5450
L_45(65)av	6678
L_45(75)av	5900
L_45(85)av	5087

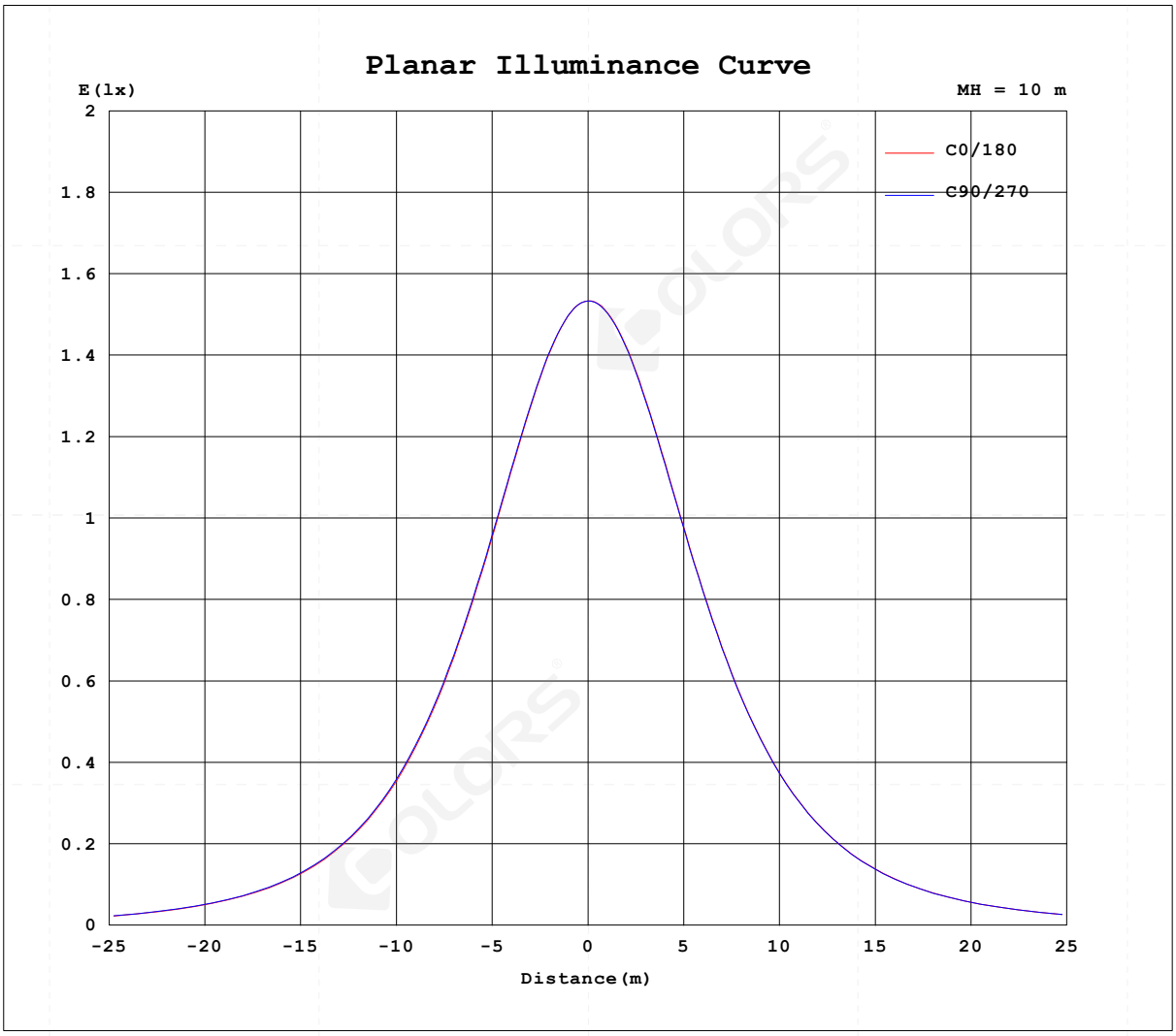
Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2023-07-08

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.375m [K=1.0000]
Remarks:

E:\ ! " # \20230906\IES\GMT2020\HCP-36620202-9LW24CSW025CC$1%& \HCP-36620202\HCP-36620202.GOS

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2023-07-08

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.375m [K=1.0000]
Remarks:

E:\ ! " # \20230906\IES\GMT2020\HCP-36620202-9LW24CSW025CC$1%& \HCP-36620202\HCP-36620202.GOS

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1 UNIT: cd

C(DEG) / (DEG)	0	45	90	135	180	225	270	315											
0	153	153	153	153	153	153	153	153											
5	152	152	153	153	153	153	153	153											
10	150	150	150	151	151	151	151	151											
15	146	147	147	147	148	148	148	148											
20	142	142	142	143	144	144	144	143											
25	135	136	136	137	139	138	138	137											
30	128	129	129	130	132	132	132	131											
35	120	121	121	122	124	124	124	123											
40	111	112	112	113	116	115	115	114											
45	100	101	102	103	106	105	106	104											
50	89.6	90.4	90.6	92.3	95.6	95.1	95.2	93.5											
55	77.9	78.6	78.9	80.7	84.3	83.8	84.0	82.1											
60	65.6	66.1	66.5	68.4	72.3	71.9	72.0	70.1											
65	52.7	53.3	53.7	55.6	59.8	59.4	59.6	57.5											
70	39.6	40.3	40.7	42.4	46.8	46.5	46.8	44.5											
75	26.6	28.0	28.0	29.2	33.5	33.6	33.8	31.4											
80	14.8	16.8	16.1	17.0	20.8	21.5	21.5	19.0											
85	6.12	7.90	7.52	7.38	10.1	11.3	11.5	8.89											
90	2.06	3.40	3.49	2.56	3.35	5.31	5.58	3.34											
95	1.49	2.48	2.22	1.93	1.42	3.46	2.09	2.02											
100	1.60	2.34	2.28	2.01	1.28	2.45	1.79	1.78											
105	1.83	2.38	1.94	2.24	1.45	2.01	1.41	1.86											
110	2.18	2.57	1.96	2.46	1.70	1.95	1.45	2.06											
115	2.42	2.75	2.07	2.67	1.96	2.09	1.70	2.18											
120	2.69	2.80	2.29	2.81	2.26	2.19	1.97	2.31											
125	2.96	2.86	2.57	2.96	2.55	2.41	2.27	2.37											
130	3.23	3.01	2.82	3.05	2.85	2.62	2.56	2.48											
135	3.38	3.25	3.06	3.20	3.07	2.94	2.85	2.76											
140	3.57	3.50	3.33	3.42	3.31	3.21	3.12	3.05											
145	3.78	3.66	3.53	3.65	3.52	3.44	3.39	3.38											
150	4.01	3.80	3.72	3.83	3.76	3.72	3.63	3.62											
155	4.20	3.97	3.90	3.98	3.90	3.90	3.86	3.84											
160	4.24	4.16	4.09	4.13	4.09	4.06	4.05	4.04											
165	4.32	4.30	4.21	4.28	4.28	4.20	4.20	4.16											
170	4.50	4.42	4.32	4.40	4.43	4.32	4.35	4.29											
175	4.57	4.52	4.45	4.49	4.57	4.47	4.46	4.40											
180	4.59	4.56	4.51	4.51	4.60	4.52	4.52	4.50											

C Range: 0 - 360DEG
C Interval: 45.0DEG
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Operators:JYH
Test Date:2023-07-08

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