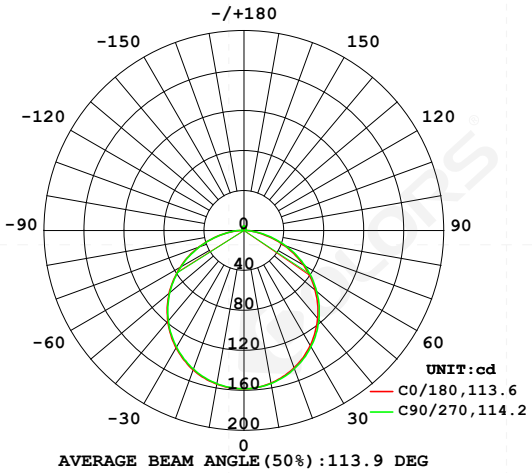
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.4444A P:10.67W PF:1.000 Freq:0Hz Lamp Flux:478.641x1 lm		
NAME: HCP-36620203	TYPE:	WEIGHT:
SPEC.:HCP-36620203	DIM.: 1000*20*20mm	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:1000*20mm	Shielding Angle:

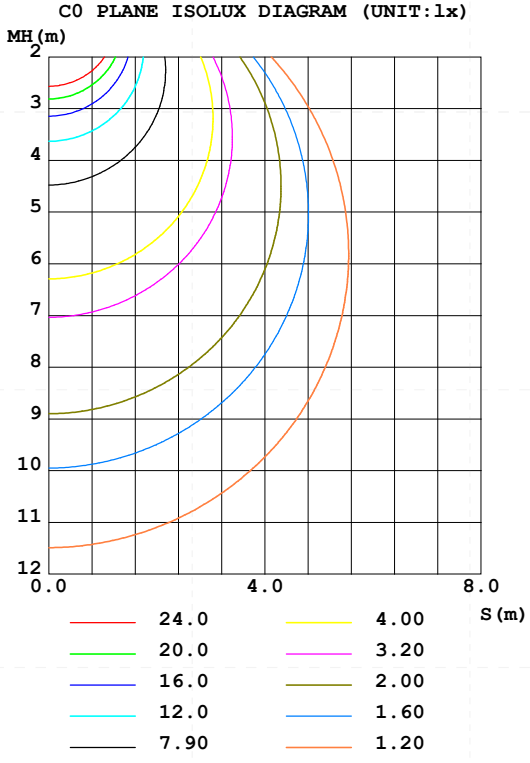
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 44.87 lm/W	
MODEL	HCP-36620203	Emax(cd)	158.4	S/MH(C0/180)	1.25
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	478.64	UP,DN(C0-180)	1.8,47.5
NOMINAL FLUX(lm)	478.641	CIE CLASS	DIRECT	UP,DN(C180-360)	1.8,48.9
LAMPS INSIDE	1	up(%)	3.6	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	down(%)	96.4	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):113.9 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-36620203-9LW24CSW025CC$1%& \HCP-36620203\HCP-36620203.GOS

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	155.1	155.5	155.5	155.6	156.1	155.8	155.7	155.5	0- 10	14.98	14.98	3.13,3.13
20	146.4	147.3	147.3	147.6	148.5	147.8	147.8	147.4	10- 20	42.96	57.94	12.1,12.1
30	132.8	134.1	134.3	134.6	135.8	134.9	135.0	134.4	20- 30	65.26	123.2	25.7,25.7
40	114.7	116.4	116.7	117.2	118.7	117.7	117.9	116.9	30- 40	78.98	202.2	42.2,42.2
50	93.09	94.83	95.19	95.95	97.82	96.83	97.10	95.89	40- 50	82.40	284.6	59.5,59.5
60	68.38	70.01	70.61	71.44	73.81	72.86	73.07	71.73	50- 60	75.03	359.6	75.1,75.1
70	41.52	43.32	43.88	44.66	47.37	46.61	47.03	45.26	60- 70	57.72	417.3	87.2,87.2
80	15.65	18.25	17.62	18.36	20.62	20.82	21.25	19.05	70- 80	33.40	450.7	94.2,94.2
90	1.950	3.428	3.539	2.675	2.852	4.715	5.335	3.457	80- 90	10.55	461.3	96.4,96.4
100	1.457	2.165	2.183	1.961	1.211	2.641	1.840	2.021	90-100	2.524	463.8	96.9,96.9
110	2.080	2.471	1.979	2.423	1.679	2.177	1.529	2.183	100-110	2.056	465.9	97.3,97.3
120	2.656	2.740	2.368	2.711	2.261	2.303	2.100	2.425	110-120	2.236	468.1	97.8,97.8
130	3.100	2.962	2.854	3.010	2.818	2.710	2.681	2.590	120-130	2.364	470.5	98.3,98.3
140	3.532	3.394	3.364	3.436	3.317	3.332	3.262	3.267	130-140	2.395	472.9	98.8,98.8
150	3.909	3.856	3.814	3.868	3.778	3.801	3.784	3.718	140-150	2.252	475.1	99.3,99.3
160	4.299	4.264	4.184	4.234	4.222	4.173	4.186	4.119	150-160	1.855	477.0	99.7,99.7
170	4.587	4.545	4.498	4.521	4.570	4.467	4.486	4.407	160-170	1.234	478.2	99.9,99.9
180	4.797	4.701	4.605	4.623	4.797	4.707	4.647	4.617	170-180	0.4377	478.6	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

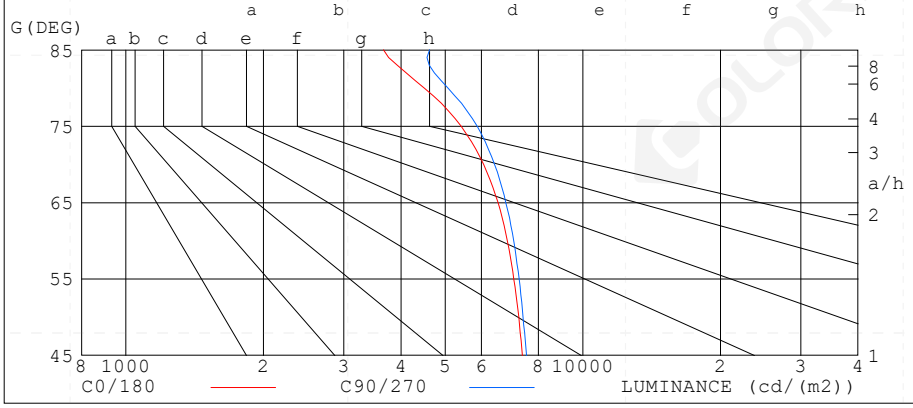
Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.375m [K=1.0000]
Remarks:

E:\ ! " # \20230906\IES\GMT2020\HCP-36620203-9LW24CSW025CC$1%& \HCP-36620203\HCP-36620203.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	3661	4618
80	4506	5074
75	5417	5871
70	6071	6415
65	6521	6786
60	6838	7061
55	7066	7254
50	7241	7405
45	7375	7526

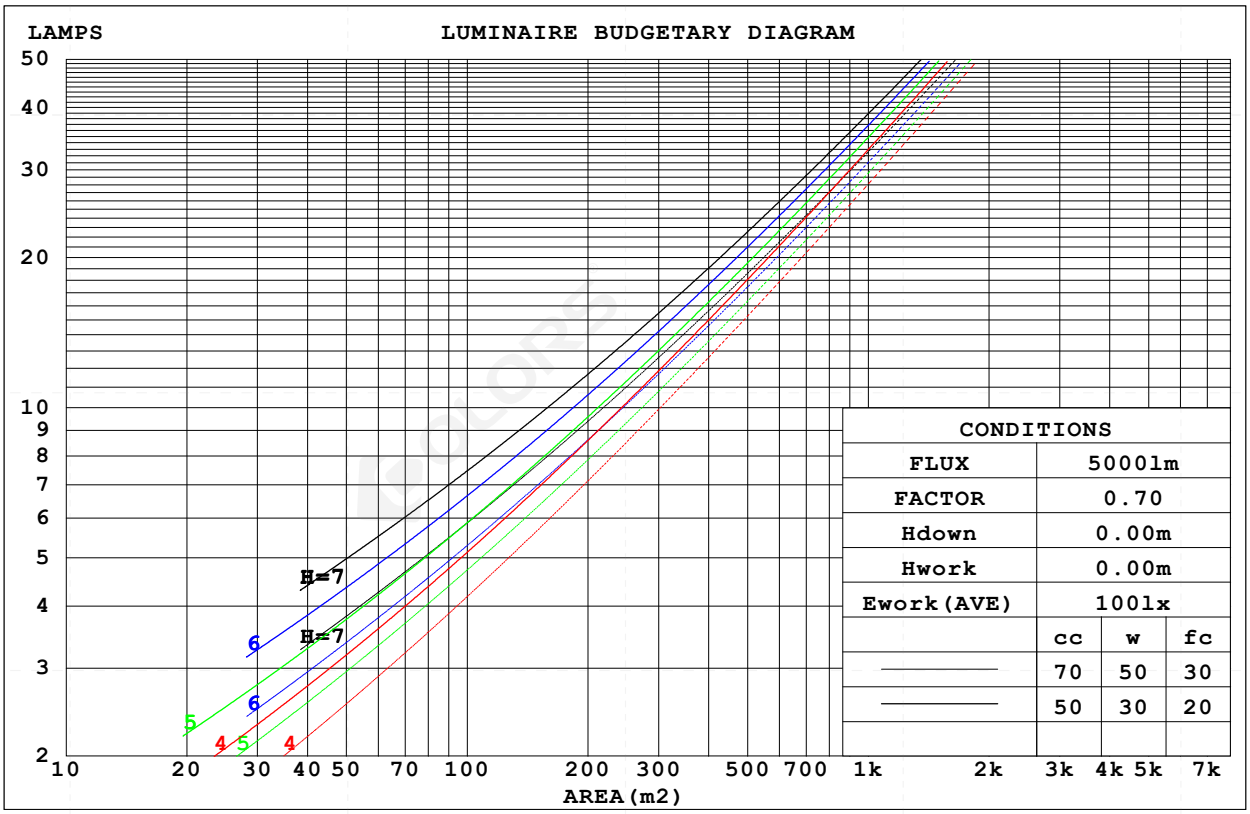
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2023-07-08

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-36620203-9LW24CSW025CC$1%& \HCP-36620203\HCP-36620203.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	.87	.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	.64	.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	.51	.45	.56	.49	.44	.53	.48	.43	.41
6.0	.56	.47	.40	.54	.46	.40	.52	.45	.39	.50	.44	.39	.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-36620203-9LW24CSW025CC$1%& \HCP-36620203\HCP-36620203.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	.178	.057	.306	.174	.055	.290	.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	.214	.116	.035	
5.0	.231	.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	.185	.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	.218	.218	.218	.186	.186	.186	.127	.127	.127	.073	.073	.073	.023	.023	.023	
1.0	.208	.184	.162	.178	.158	.139	.122	.109	.096	.070	.063	.056	.022	.020	.018	
2.0	.201	.160	.126	.172	.138	.109	.118	.095	.076	.068	.055	.044	.022	.018	.014	
3.0	.193	.142	.102	.165	.123	.089	.114	.085	.062	.066	.050	.037	.021	.016	.012	
4.0	.185	.129	.087	.159	.112	.075	.109	.078	.053	.063	.046	.031	.020	.015	.010	
5.0	.178	.119	.076	.153	.103	.066	.105	.072	.046	.061	.042	.028	.020	.014	.009	
6.0	.171	.111	.068	.147	.096	.059	.101	.067	.042	.059	.039	.025	.019	.013	.008	
7.0	.164	.104	.062	.141	.090	.054	.097	.063	.038	.057	.037	.023	.018	.012	.008	
8.0	.157	.098	.057	.136	.085	.050	.094	.060	.035	.055	.035	.021	.018	.012	.007	
9.0	.151	.093	.054	.130	.081	.047	.090	.057	.033	.053	.034	.020	.017	.011	.007	
10.0	.146	.089	.051	.126	.077	.045	.087	.054	.032	.051	.032	.019	.016	.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-36620203-9LW24CSW025CC$1%& \HCP-36620203\HCP-36620203.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	22.0	23.4	22.3	23.7	24.0	22.1	23.6	22.4	23.8	24.1
	3H	23.4	24.8	23.8	25.1	25.4	23.6	25.0	23.9	25.3	25.6
	4H	24.0	25.3	24.3	25.6	25.9	24.2	25.5	24.5	25.8	26.1
	6H	24.3	25.5	24.7	25.9	26.2	24.6	25.8	25.0	26.1	26.5
	8H	24.4	25.6	24.8	25.9	26.3	24.7	25.9	25.1	26.2	26.6
	12H	24.4	25.6	24.8	25.9	26.3	24.8	25.9	25.2	26.2	26.6
4H	2H	22.6	23.9	22.9	24.2	24.5	22.7	24.0	23.0	24.3	24.6
	3H	24.2	25.3	24.6	25.7	26.1	24.4	25.5	24.8	25.8	26.2
	4H	24.9	25.9	25.3	26.3	26.7	25.1	26.1	25.5	26.5	26.9
	6H	25.3	26.2	25.8	26.7	27.1	25.6	26.5	26.0	26.9	27.4
	8H	25.5	26.3	25.9	26.8	27.2	25.7	26.6	26.2	27.0	27.5
	12H	25.5	26.3	26.0	26.8	27.3	25.9	26.6	26.3	27.1	27.6
8H	4H	25.1	26.0	25.6	26.4	26.9	25.3	26.2	25.8	26.6	27.0
	6H	25.7	26.4	26.2	26.9	27.4	26.0	26.7	26.5	27.1	27.6
	8H	25.9	26.6	26.5	27.1	27.6	26.2	26.8	26.7	27.3	27.9
	12H	26.1	26.6	26.6	27.2	27.7	26.4	26.9	26.9	27.5	28.0
12H	4H	25.1	25.9	25.6	26.4	26.9	25.3	26.1	25.8	26.5	27.0
	6H	25.8	26.4	26.3	26.9	27.4	26.0	26.6	26.5	27.1	27.7
	8H	26.0	26.6	26.6	27.1	27.7	26.3	26.8	26.8	27.3	27.9
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, 478.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.6)

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-36620203-9LW24CSW025CC$1%& \HCP-36620203\HCP-36620203.GOS

UTILIZATION FACTORS TABLE

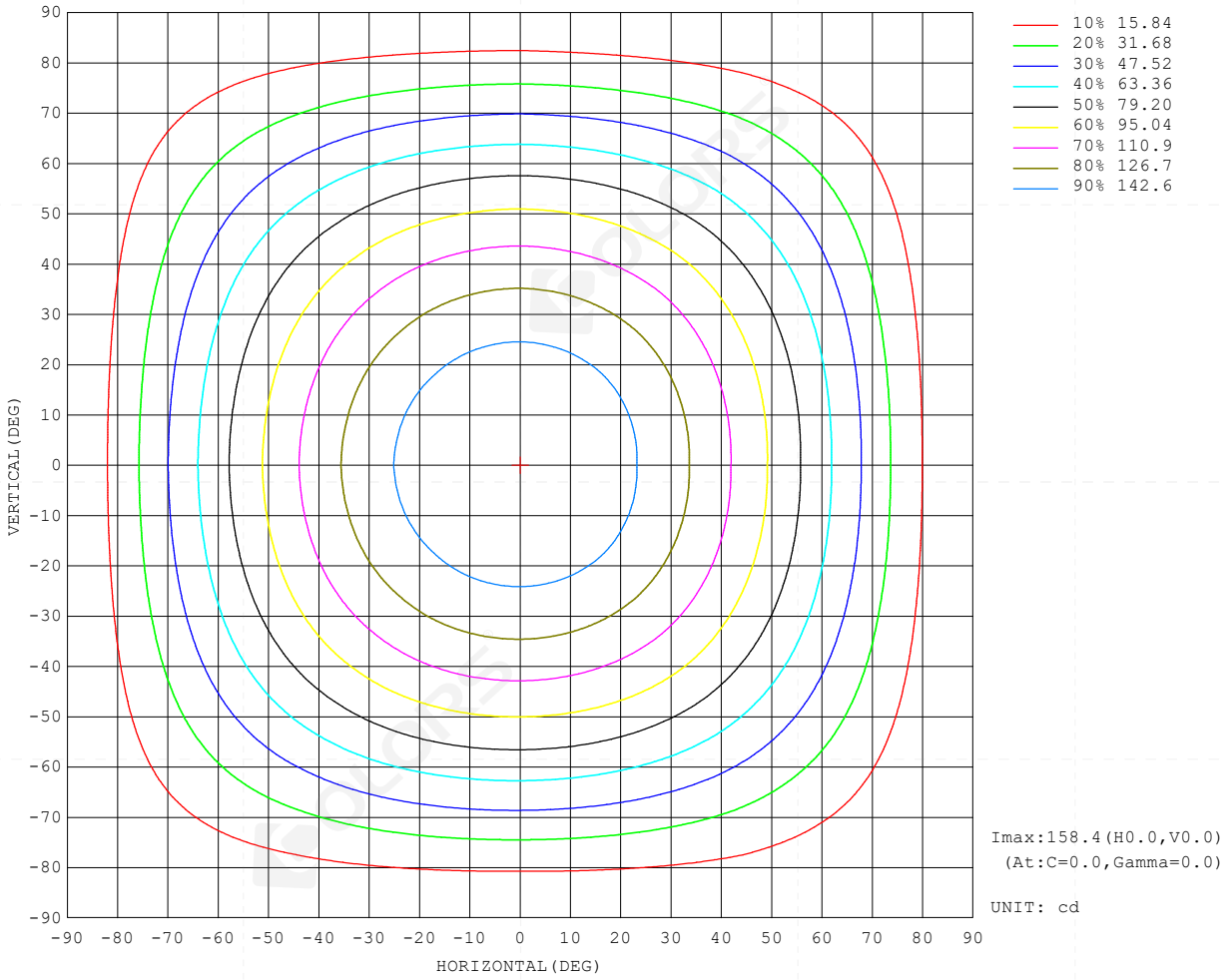
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	56	44	37	55	44	37	54	43	37	30
0.80	66	54	47	65	54	47	63	53	46	39
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	87	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	89	84	75
4.00	105	99	94	102	97	93	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-36620203-9LW24CSW025CC$1%& \HCP-36620203\HCP-36620203.GOS

ISOCANDELA DIAGRAM



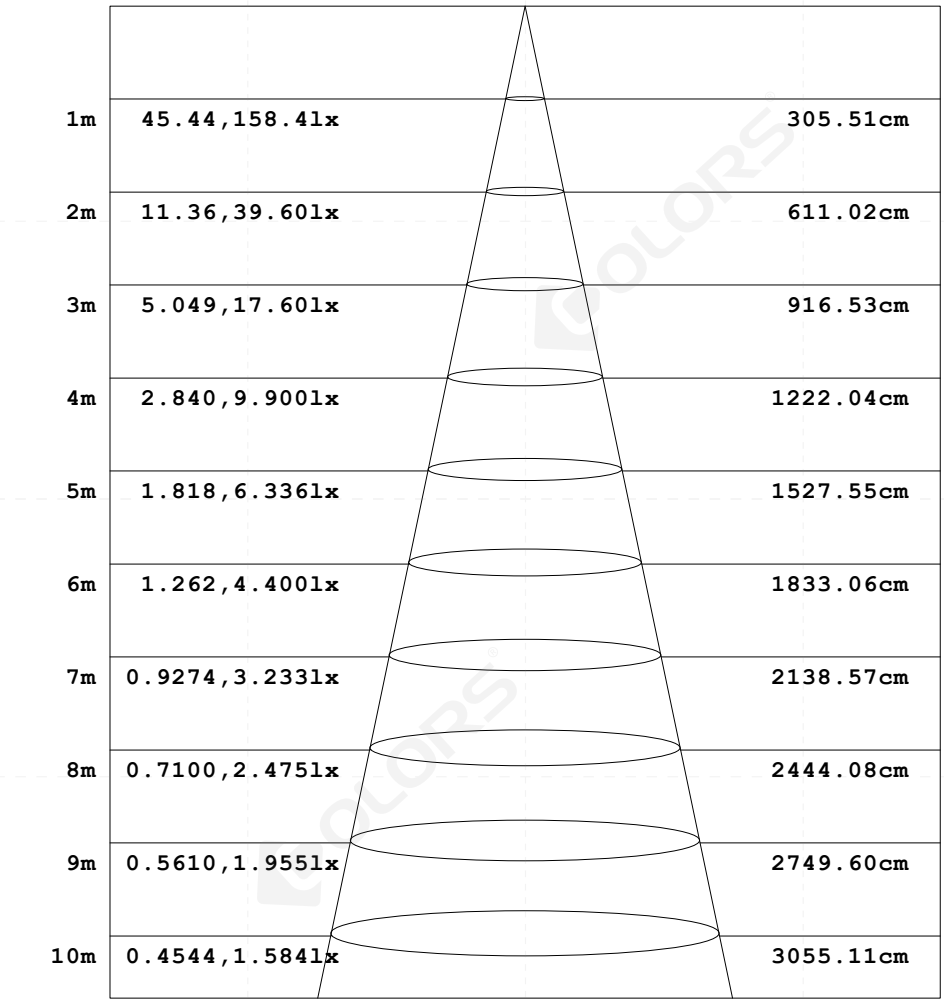
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2023-07-08

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-36620203-9LW24CSW025CC$1%& \HCP-36620203\HCP-36620203.GOS

AAI Figure

Flux out:338.5 lm



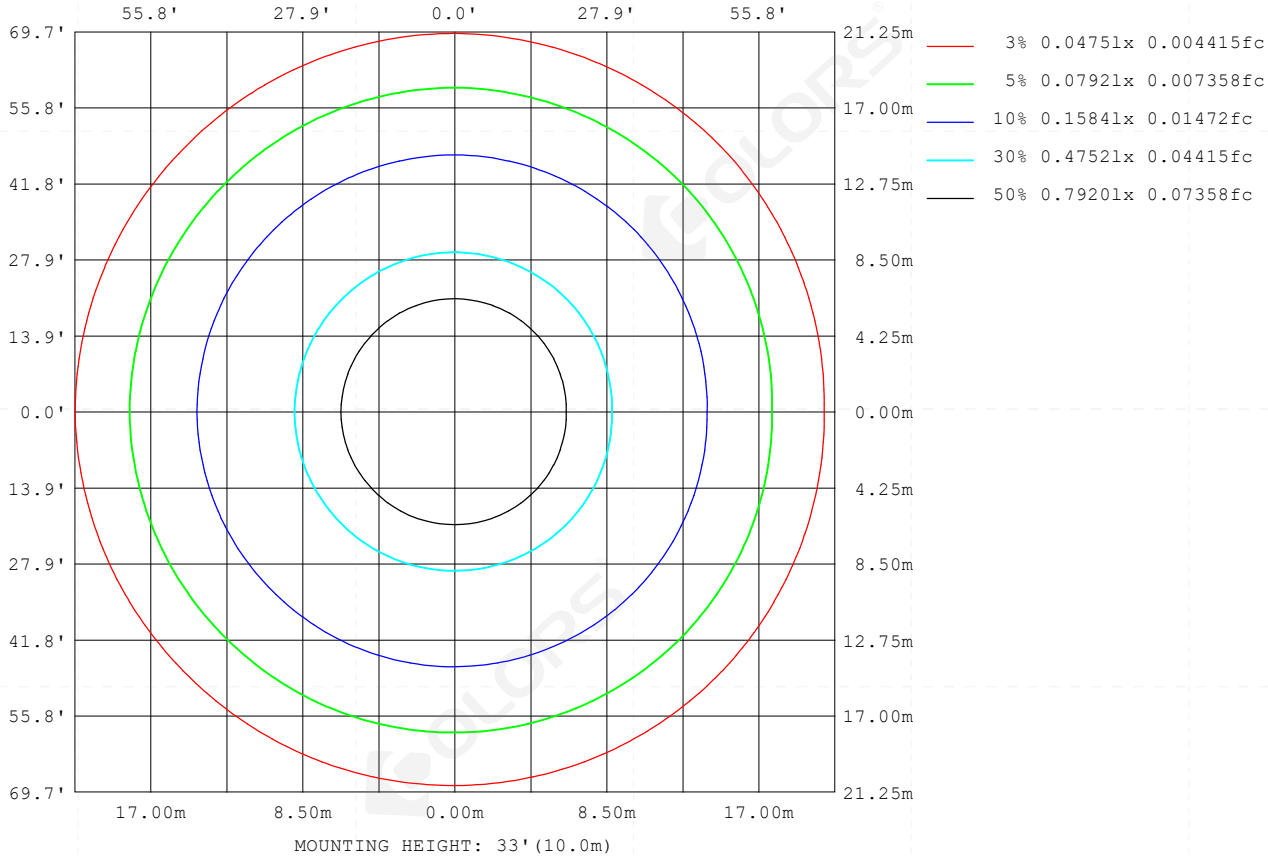
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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-36620203-9LW24CSW025CC$1%& \HCP-36620203\HCP-36620203.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-36620203-9LW24CSW025CC$1%& \HCP-36620203\HCP-36620203.GOS

LED Avg.L Report

Test:U:24.00V I:0.4444A P:10.67W PF:1.000 Freq:0Hz Lamp Flux:478.641x1 lm		
NAME: HCP-36620203	TYPE:	WEIGHT:
SPEC.:HCP-36620203	DIM.: 1000*20*20mm	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:1000*20mm	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	6858
L_0~180(75)av	5964
L_0~180(85)av	4587
L_90~270(65)av	6952
L_90~270(75)av	6193
L_90~270(85)av	5463
L_45(65)av	6908
L_45(75)av	6103
L_45(85)av	5163

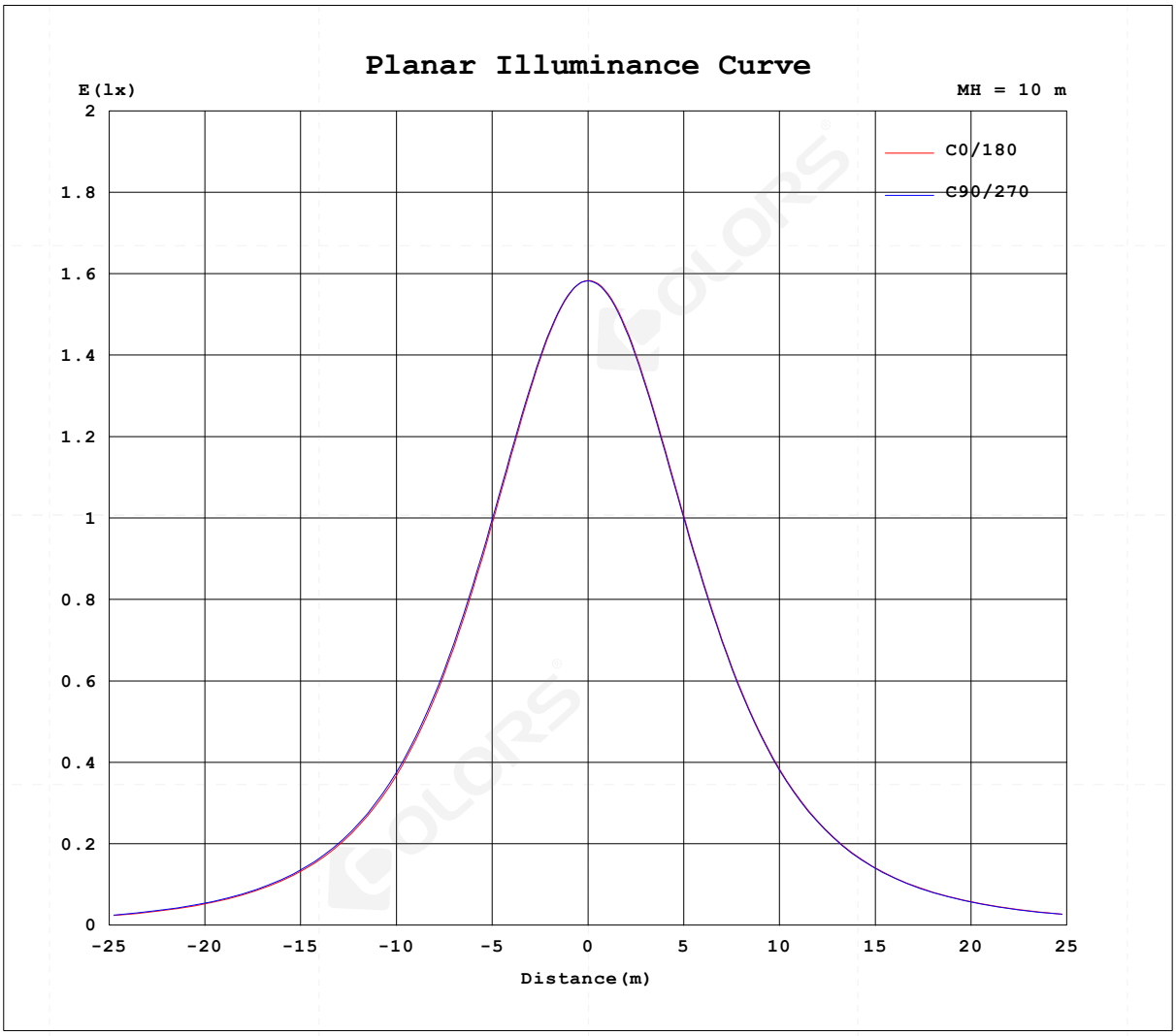
Standard: GB/T 29293-2012

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-36620203-9LW24CSW025CC$1%& \HCP-36620203\HCP-36620203.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-36620203-9LW24CSW025CC$1%& \HCP-36620203\HCP-36620203.GOS

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1 UNIT: cd

C(DEG) / (DEG)	0	45	90	135	180	225	270	315											
0	158	158	158	158	158	158	158	158											
5	157	158	158	158	158	158	158	158											
10	155	155	155	156	156	156	156	156											
15	151	152	152	152	153	152	152	152											
20	146	147	147	148	149	148	148	147											
25	140	141	142	142	143	142	142	142											
30	133	134	134	135	136	135	135	134											
35	124	126	126	126	128	127	127	126											
40	115	116	117	117	119	118	118	117											
45	104	106	106	107	109	108	108	107											
50	93.1	94.8	95.2	95.9	97.8	96.8	97.1	95.9											
55	81.1	82.8	83.2	84.0	86.2	85.1	85.4	84.2											
60	68.4	70.0	70.6	71.4	73.8	72.9	73.1	71.7											
65	55.1	56.7	57.4	58.2	60.8	59.9	60.2	58.7											
70	41.5	43.3	43.9	44.7	47.4	46.6	47.0	45.3											
75	28.0	30.2	30.4	31.1	33.7	33.3	33.7	31.8											
80	15.7	18.3	17.6	18.4	20.6	20.8	21.2	19.1											
85	6.38	8.47	8.05	8.11	9.61	10.6	11.0	8.85											
90	1.95	3.43	3.54	2.67	2.85	4.72	5.34	3.46											
95	1.42	2.39	2.12	1.89	1.16	3.36	2.14	2.34											
100	1.46	2.16	2.18	1.96	1.21	2.64	1.84	2.02											
105	1.80	2.27	1.96	2.20	1.41	2.25	1.41	2.03											
110	2.08	2.47	1.98	2.42	1.68	2.18	1.53	2.18											
115	2.36	2.61	2.15	2.61	1.95	2.27	1.79	2.33											
120	2.66	2.74	2.37	2.71	2.26	2.30	2.10	2.42											
125	2.94	2.85	2.60	2.94	2.57	2.40	2.39	2.39											
130	3.10	2.96	2.85	3.01	2.82	2.71	2.68	2.59											
135	3.34	3.16	3.14	3.19	3.08	2.99	2.99	2.91											
140	3.53	3.39	3.36	3.44	3.32	3.33	3.26	3.27											
145	3.72	3.63	3.60	3.64	3.56	3.57	3.53	3.53											
150	3.91	3.86	3.81	3.87	3.78	3.80	3.78	3.72											
155	4.11	4.06	4.01	4.05	4.01	4.00	4.00	3.94											
160	4.30	4.26	4.18	4.23	4.22	4.17	4.19	4.12											
165	4.49	4.41	4.32	4.39	4.42	4.32	4.36	4.29											
170	4.59	4.55	4.50	4.52	4.57	4.47	4.49	4.41											
175	4.70	4.65	4.59	4.62	4.72	4.59	4.59	4.53											
180	4.80	4.70	4.61	4.62	4.80	4.71	4.65	4.62											

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-36620203-9LW24CSW025CC$1%& \HCP-36620203\HCP-36620203.GOS