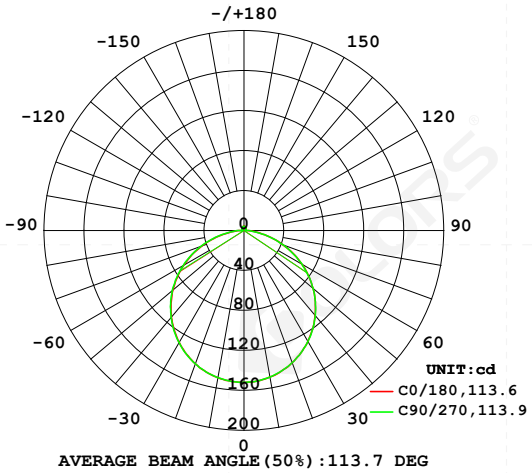
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.4455A P:10.69W PF:1.000 Freq:0Hz Lamp Flux:459.092x1 lm		
NAME: HCP-36620204	TYPE:	WEIGHT:
SPEC.:HCP-36620204	DIM.: 1000*20*20mm	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:1000*20mm	Shielding Angle:

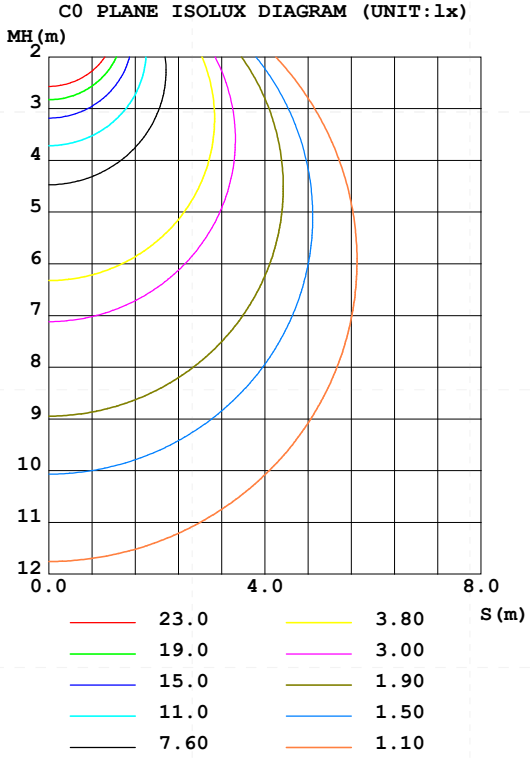
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 42.93 lm/W	
MODEL	HCP-36620204	Imax(cd)	152.0	S/MH(C0/180)	1.25
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	459.09	UP,DN(C0-180)	1.9,47.4
NOMINAL FLUX(lm)	459.092	CIE CLASS	DIRECT	UP,DN(C180-360)	1.8,49.0
LAMPS INSIDE	1	up(%)	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%):113.7 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-36620204-9LW24CSW025CC$1%& \HCP-36620204\HCP-36620204.GOS

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	149.1	149.2	148.9	148.9	149.6	149.4	149.6	149.6	0- 10	14.38	14.38	3.13,3.13
20	141.0	141.3	140.9	140.8	142.1	141.7	142.1	142.1	10- 20	41.22	55.59	12.1,12.1
30	128.1	128.7	128.1	128.0	129.6	129.3	129.9	129.8	20- 30	62.58	118.2	25.7,25.7
40	111.0	111.7	111.1	111.0	113.1	112.7	113.6	113.3	30- 40	75.72	193.9	42.2,42.2
50	90.32	91.12	90.30	90.37	92.88	92.49	93.58	93.16	40- 50	78.95	272.8	59.4,59.4
60	66.77	67.41	66.53	66.72	69.69	69.41	70.55	70.11	50- 60	71.83	344.7	75.1,75.1
70	41.27	41.81	41.11	41.11	44.35	44.14	45.43	44.82	60- 70	55.22	399.9	87.1,87.1
80	16.42	17.80	16.66	16.76	19.10	19.42	20.75	19.90	70- 80	32.04	431.9	94.1,94.1
90	2.420	3.501	3.433	2.926	2.815	4.465	5.411	4.290	80- 90	10.48	442.4	96.4,96.4
100	1.451	2.060	1.863	1.877	1.158	2.142	2.080	1.937	90-100	2.487	444.9	96.9,96.9
110	1.979	2.405	1.792	2.285	1.625	1.990	1.440	1.979	100-110	1.939	446.8	97.3,97.3
120	2.488	2.548	2.224	2.635	2.171	2.219	1.962	2.308	110-120	2.118	449.0	97.8,97.8
130	3.022	2.885	2.764	2.927	2.735	2.674	2.543	2.434	120-130	2.264	451.2	98.3,98.3
140	3.430	3.340	3.238	3.358	3.232	3.130	3.095	3.004	130-140	2.308	453.5	98.8,98.8
150	3.813	3.736	3.693	3.754	3.688	3.610	3.598	3.532	140-150	2.166	455.7	99.3,99.3
160	4.113	4.102	4.017	4.090	4.054	4.011	4.000	3.987	150-160	1.785	457.5	99.7,99.7
170	4.389	4.365	4.299	4.341	4.390	4.293	4.294	4.215	160-170	1.185	458.7	99.9,99.9
180	4.599	4.515	4.455	4.479	4.599	4.509	4.461	4.485	170-180	0.4197	459.1	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

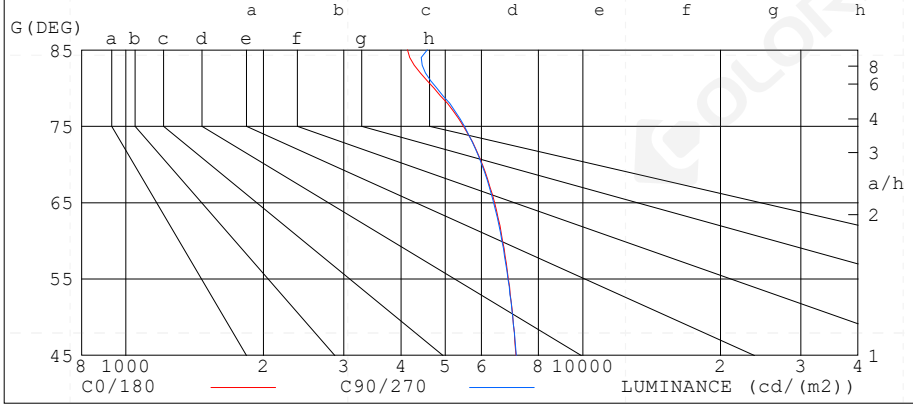
Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.375m [K=1.0000]
Remarks:

E:\ ! " # \20230906\IES\GMT2020\HCP-36620204-9LW24CSW025CC$1%& \HCP-36620204\HCP-36620204.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	4134	4568
80	4729	4798
75	5482	5507
70	6033	6010
65	6409	6378
60	6677	6653
55	6875	6862
50	7025	7024
45	7146	7148

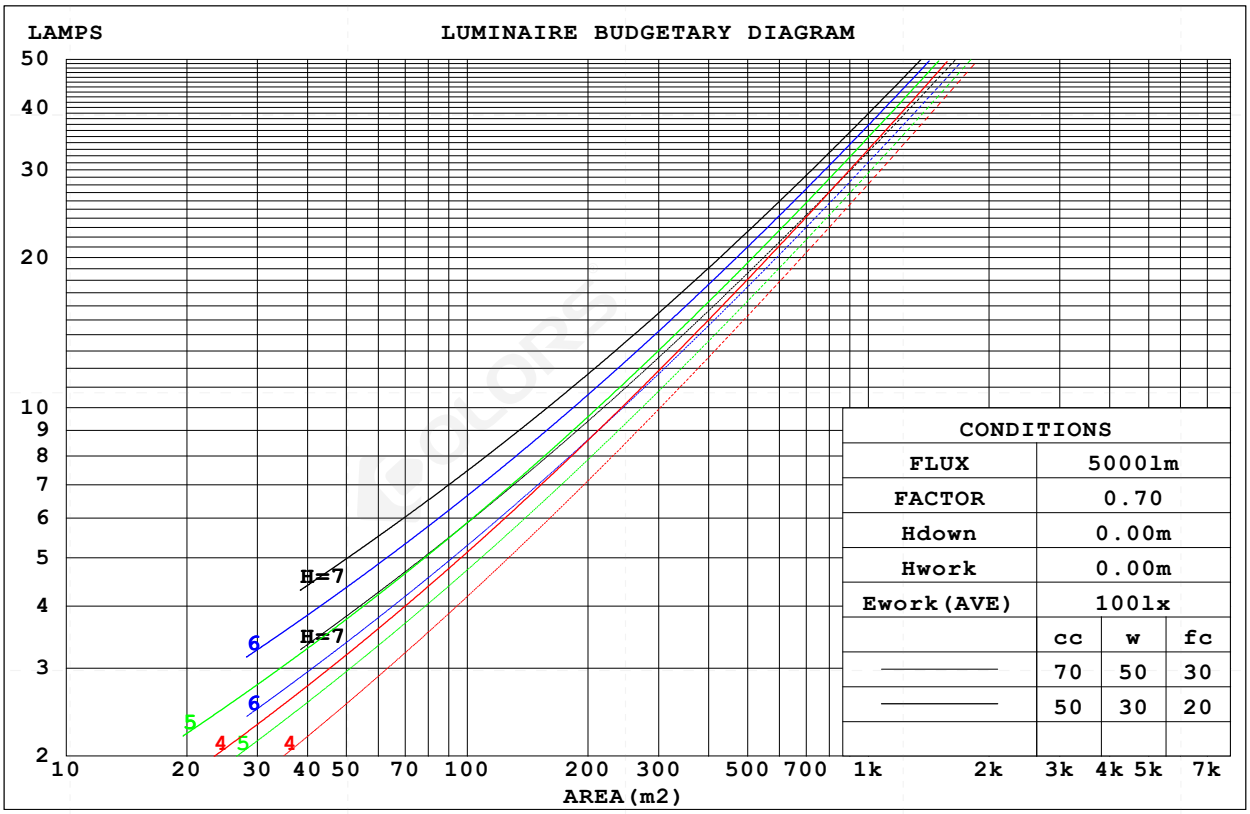
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2023-07-08

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-36620204-9LW24CSW025CC$1%& \HCP-36620204\HCP-36620204.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	.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-36620204-9LW24CSW025CC$1%& \HCP-36620204\HCP-36620204.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	.315	.179	.057	.306	.175	.056	.291	.167	.053	.277	.160	.051	.264	.153	.049	
2.0	.294	.161	.049	.287	.158	.049	.273	.152	.047	.260	.146	.046	.249	.141	.044	
3.0	.271	.144	.043	.265	.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	.209	.184	.162	.178	.158	.139	.122	.109	.096	.070	.063	.056	.023	.020	.018	
2.0	.201	.160	.126	.172	.138	.109	.118	.095	.076	.068	.055	.044	.022	.018	.014	
3.0	.193	.143	.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	.158	.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-36620204-9LW24CSW025CC$1%& \HCP-36620204\HCP-36620204.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	23.5	22.4	23.8	24.1	22.0	23.5	22.4	23.8	24.1
	3H	23.5	24.9	23.9	25.2	25.5	23.5	24.9	23.9	25.2	25.5
	4H	24.1	25.4	24.5	25.7	26.0	24.1	25.4	24.5	25.7	26.0
	6H	24.5	25.7	24.9	26.0	26.4	24.5	25.7	24.9	26.0	26.4
	8H	24.6	25.8	25.0	26.1	26.5	24.6	25.8	25.0	26.1	26.5
	12H	24.7	25.8	25.1	26.2	26.5	24.7	25.8	25.1	26.2	26.6
4H	2H	22.6	23.9	23.0	24.3	24.6	22.6	23.9	23.0	24.2	24.6
	3H	24.3	25.4	24.7	25.8	26.2	24.3	25.4	24.7	25.8	26.2
	4H	25.0	26.0	25.4	26.4	26.8	25.0	26.0	25.4	26.4	26.8
	6H	25.5	26.4	26.0	26.8	27.3	25.5	26.4	26.0	26.8	27.3
	8H	25.7	26.5	26.1	27.0	27.4	25.7	26.5	26.1	27.0	27.4
	12H	25.8	26.6	26.3	27.0	27.5	25.8	26.6	26.3	27.0	27.5
8H	4H	25.3	26.1	25.7	26.5	27.0	25.2	26.1	25.7	26.5	27.0
	6H	25.9	26.6	26.4	27.1	27.6	25.9	26.6	26.4	27.1	27.6
	8H	26.2	26.8	26.7	27.3	27.8	26.2	26.8	26.7	27.3	27.8
	12H	26.3	26.9	26.9	27.4	27.9	26.4	26.9	26.9	27.4	28.0
12H	4H	25.3	26.0	25.7	26.5	27.0	25.3	26.0	25.7	26.5	27.0
	6H	26.0	26.6	26.5	27.1	27.6	26.0	26.6	26.5	27.1	27.6
	8H	26.3	26.8	26.8	27.3	27.9	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, 459.1 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-36620204-9LW24CSW025CC$1%& \HCP-36620204\HCP-36620204.GOS

UTILIZATION FACTORS TABLE

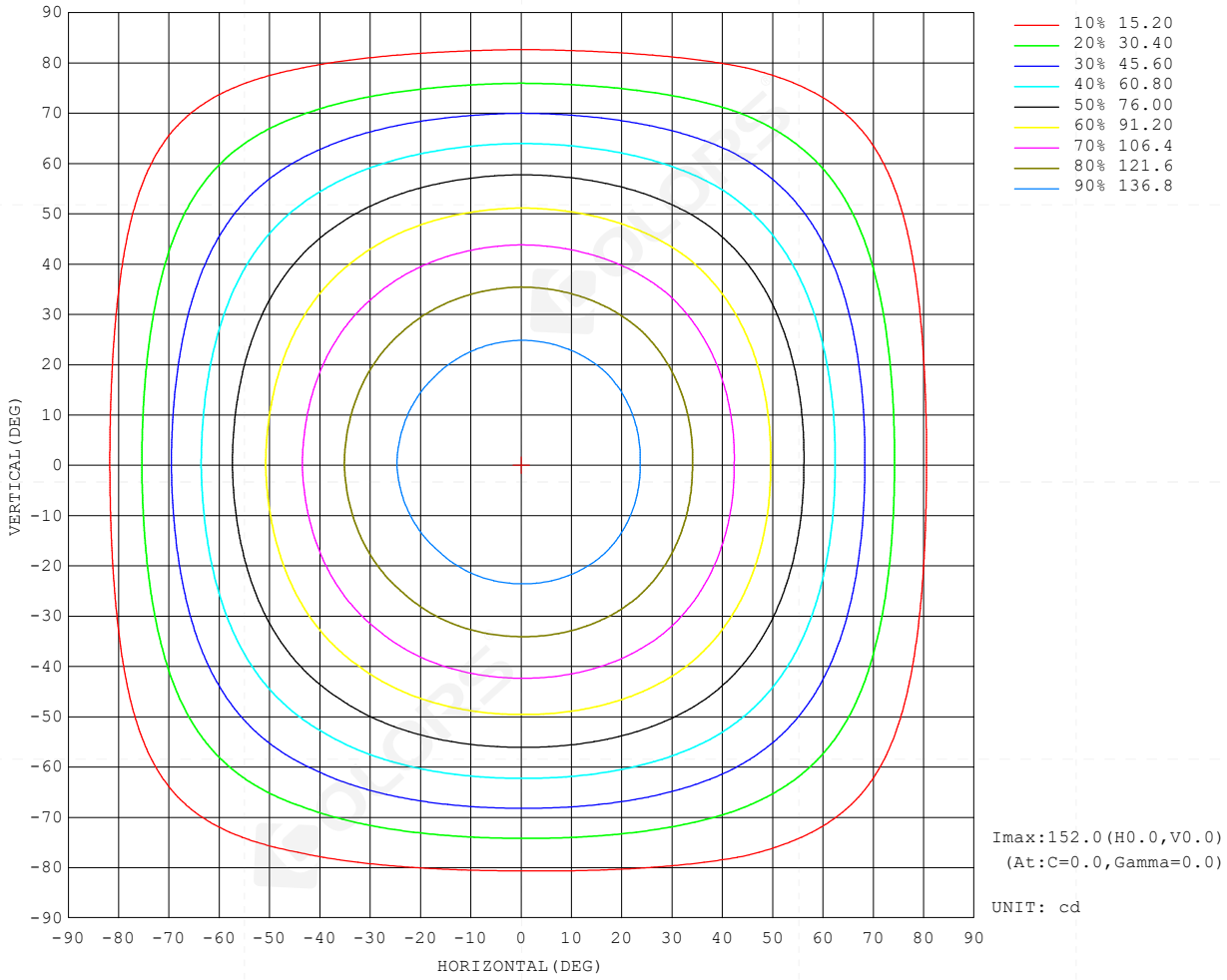
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	56	44	37	55	44	37	54	43	37	30
0.80	66	54	47	65	54	47	63	53	46	39
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-36620204-9LW24CSW025CC$1%& \HCP-36620204\HCP-36620204.GOS

ISOCANDELA DIAGRAM



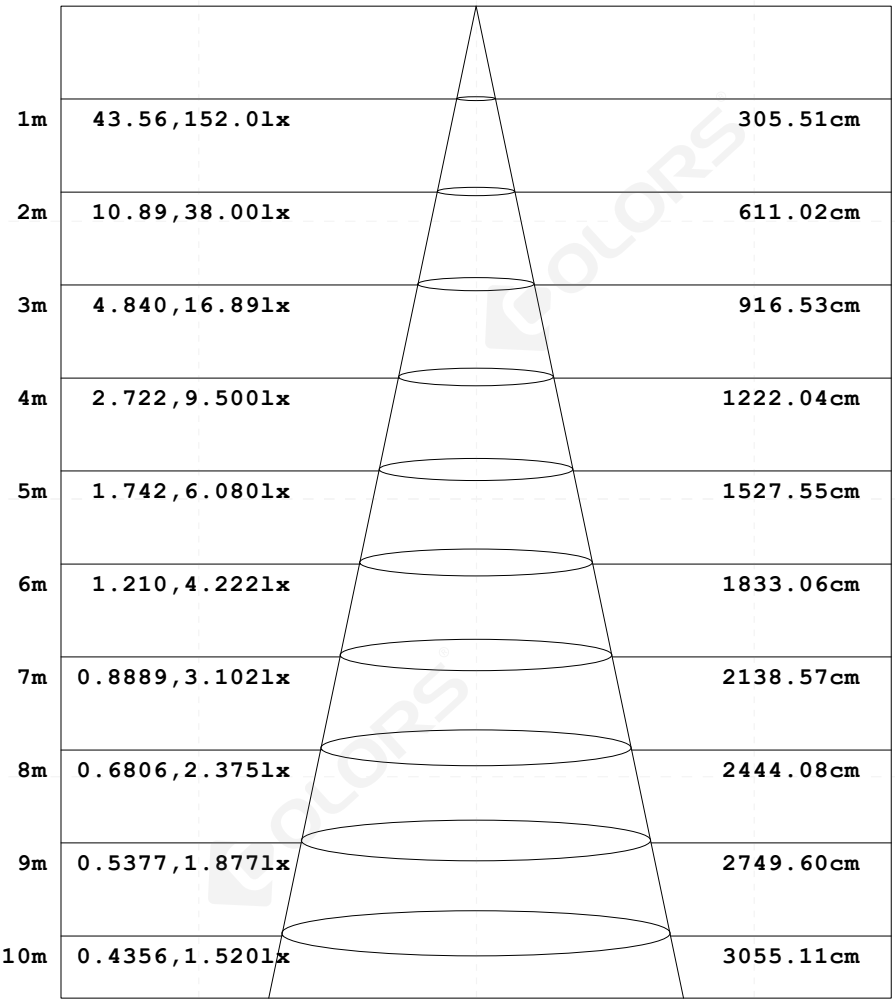
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2023-07-08

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-36620204-9LW24CSW025CC$1%& \HCP-36620204\HCP-36620204.GOS

AAI Figure

Flux out:324.5 lm



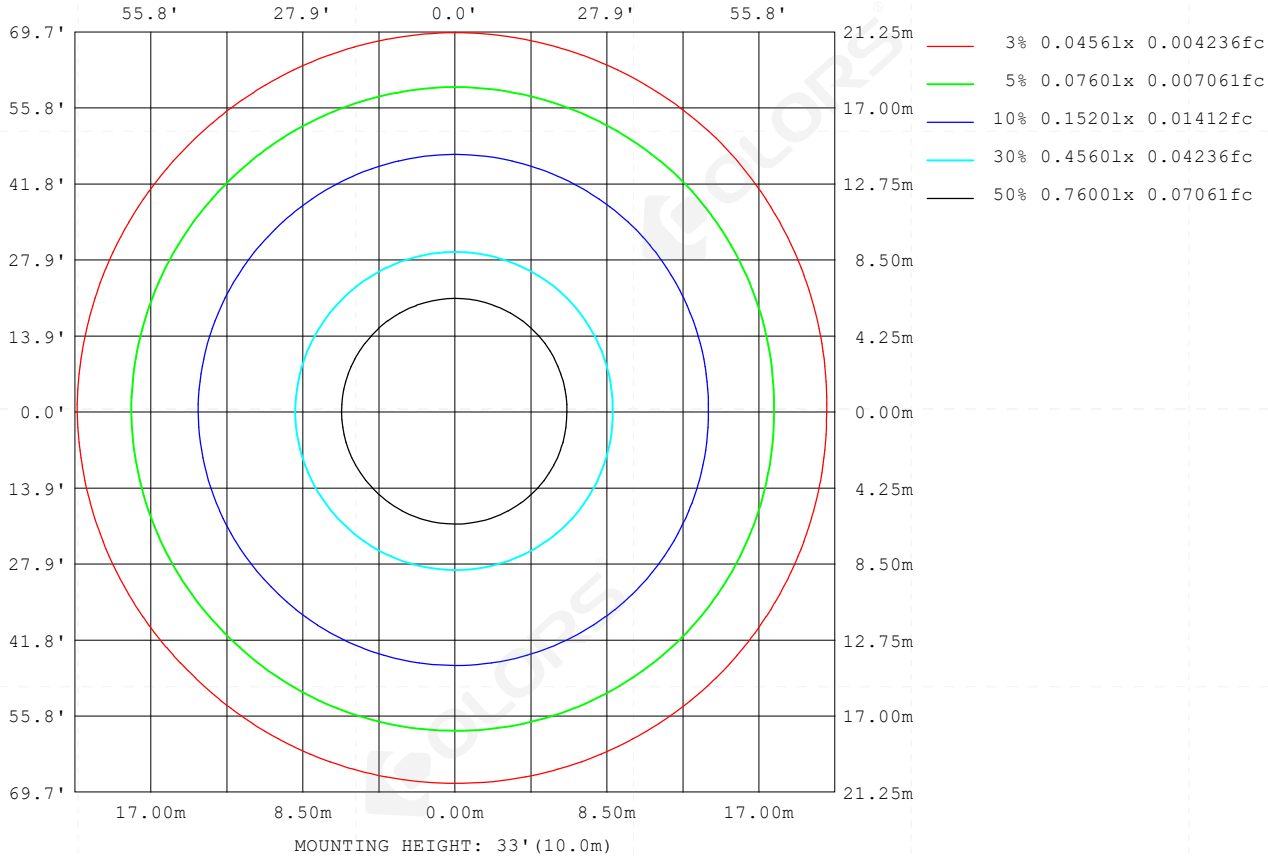
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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-36620204-9LW24CSW025CC$1%& \HCP-36620204\HCP-36620204.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-36620204-9LW24CSW025CC$1%& \HCP-36620204\HCP-36620204.GOS

LED Avg.L Report

Test:U:24.00V I:0.4455A P:10.69W PF:1.000 Freq:0Hz Lamp Flux:459.092x1 lm		
NAME: HCP-36620204	TYPE:	WEIGHT:
SPEC.:HCP-36620204	DIM.: 1000*20*20mm	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:1000*20mm	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	6590
L_0~180(75)av	5771
L_0~180(85)av	4613
L_90~270(65)av	6629
L_90~270(75)av	5910
L_90~270(85)av	5445
L_45(65)av	6607
L_45(75)av	5839
L_45(85)av	5185

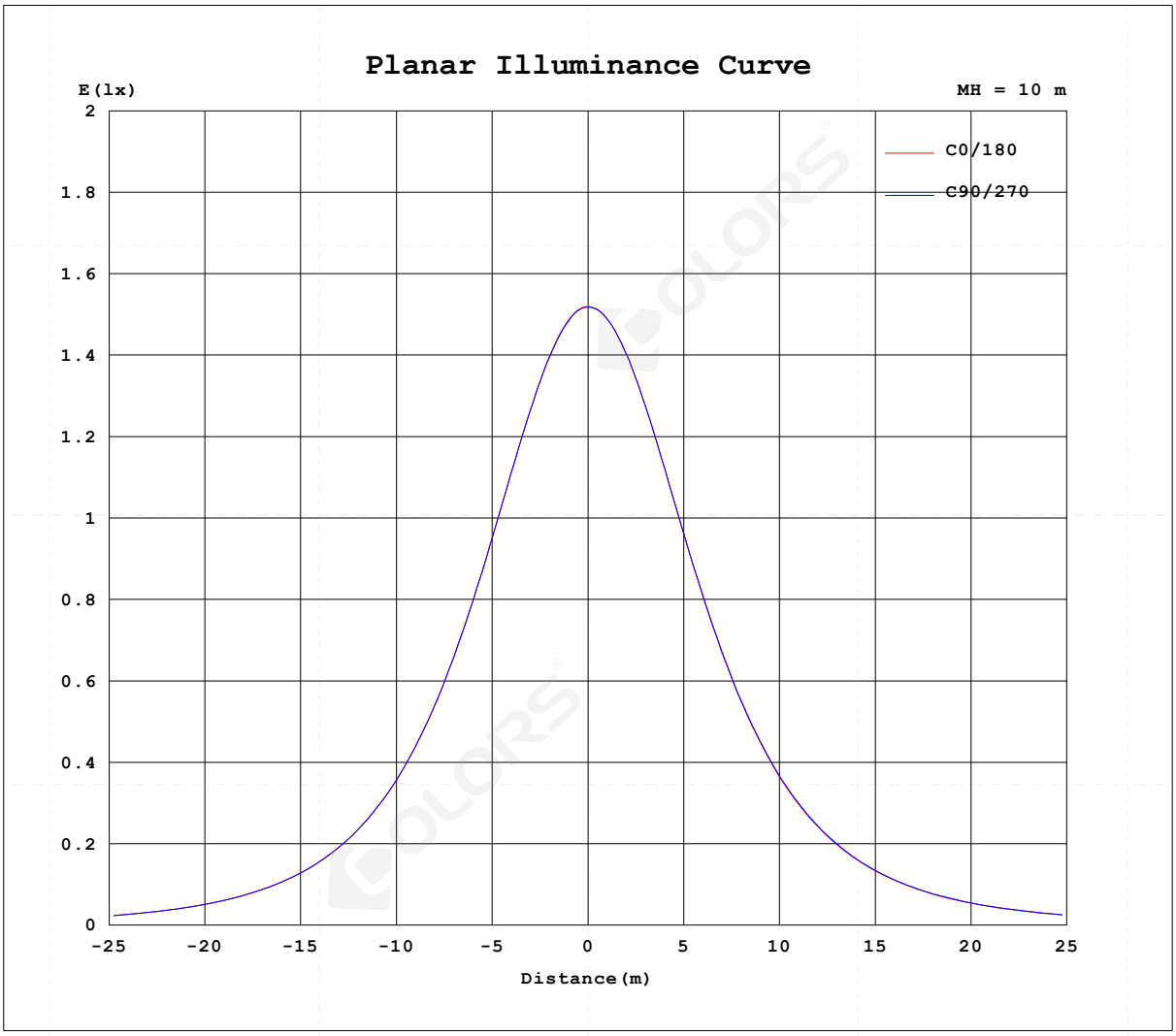
Standard: GB/T 29293-2012

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-36620204-9LW24CSW025CC$1%& \HCP-36620204\HCP-36620204.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-36620204-9LW24CSW025CC$1%& \HCP-36620204\HCP-36620204.GOS

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1 UNIT: cd

C(DEG) / (DEG)	0	45	90	135	180	225	270	315											
0	152	152	152	152	152	152	152	152											
5	151	151	151	151	152	151	151	151											
10	149	149	149	149	150	149	150	150											
15	146	146	146	146	146	146	146	146											
20	141	141	141	141	142	142	142	142											
25	135	136	135	135	136	136	137	136											
30	128	129	128	128	130	129	130	130											
35	120	121	120	120	122	121	122	122											
40	111	112	111	111	113	113	114	113											
45	101	102	101	101	103	103	104	104											
50	90.3	91.1	90.3	90.4	92.9	92.5	93.6	93.2											
55	78.9	79.6	78.7	78.8	81.6	81.2	82.4	82.0											
60	66.8	67.4	66.5	66.7	69.7	69.4	70.6	70.1											
65	54.2	54.7	53.9	54.0	57.2	57.0	58.2	57.6											
70	41.3	41.8	41.1	41.1	44.4	44.1	45.4	44.8											
75	28.4	29.2	28.5	28.3	31.4	31.4	32.7	32.0											
80	16.4	17.8	16.7	16.8	19.1	19.4	20.7	19.9											
85	7.21	8.58	7.96	7.64	8.88	9.86	11.0	10.1											
90	2.42	3.50	3.43	2.93	2.81	4.47	5.41	4.29											
95	1.40	2.18	2.01	1.95	1.09	2.86	2.01	2.49											
100	1.45	2.06	1.86	1.88	1.16	2.14	2.08	1.94											
105	1.66	2.20	1.73	2.05	1.39	1.94	1.70	1.82											
110	1.98	2.40	1.79	2.28	1.63	1.99	1.44	1.98											
115	2.24	2.58	1.97	2.50	1.87	2.16	1.69	2.14											
120	2.49	2.55	2.22	2.64	2.17	2.22	1.96	2.31											
125	2.77	2.69	2.49	2.79	2.45	2.39	2.26	2.36											
130	3.02	2.88	2.76	2.93	2.73	2.67	2.54	2.43											
135	3.23	3.11	3.02	3.18	2.98	2.85	2.82	2.75											
140	3.43	3.34	3.24	3.36	3.23	3.13	3.09	3.00											
145	3.62	3.58	3.45	3.57	3.48	3.36	3.36	3.26											
150	3.81	3.74	3.69	3.75	3.69	3.61	3.60	3.53											
155	3.99	3.92	3.84	3.93	3.86	3.81	3.81	3.75											
160	4.11	4.10	4.02	4.09	4.05	4.01	4.00	3.99											
165	4.28	4.25	4.16	4.23	4.23	4.13	4.16	4.11											
170	4.39	4.37	4.30	4.34	4.39	4.29	4.29	4.22											
175	4.50	4.46	4.40	4.44	4.52	4.40	4.40	4.32											
180	4.60	4.52	4.46	4.48	4.60	4.51	4.46	4.49											

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

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