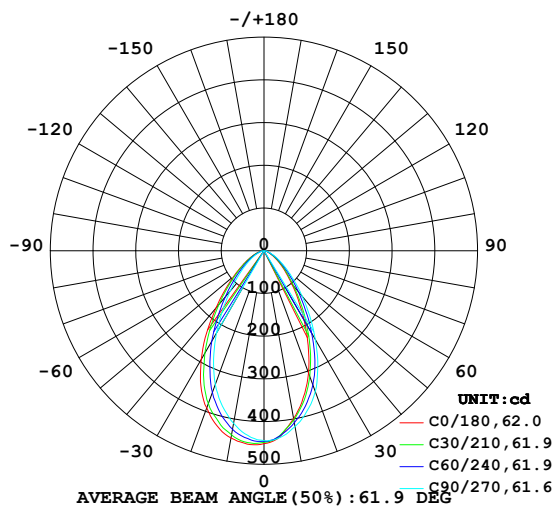


LUMINAIRE PHOTOMETRIC TEST REPORT

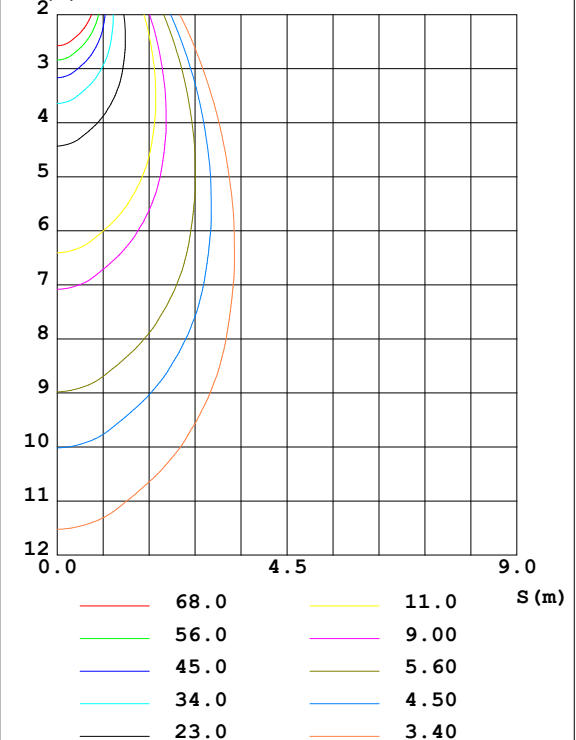
Test:U:230.17V I:0.0267A P:5.8253W PF:0.9477 Freq:50.00Hz Lamp Flux:551.204x1 lm					
NAME: ECOM-6W		TYPE:3000K		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		SUR.:		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 94.62 lm/W
MODEL		I _{max} (cd)	455.0	S/MH (C0/180)	1.04	
NOMINAL POWER (W)	6	LOR (%)	100.0	S/MH (C90/270)	0.89	
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	551.20	η UP,DN (C0-180)	0.0,50.8	
NOMINAL FLUX (lm)	551.204	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,49.2	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE (V)	230.2	η down (%)	100.0	CIBSE SHR MAX	0.95	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jone
Test Date:2021-03-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.270
Humidity:65.0%
Test Distance:7.030m [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	399.1	404.7	418.3	432.5	445.1	430.4	410.3	394.7	0- 10	41.11	41.11	7.46, 7.46
20	305.3	322.5	350.8	379.9	391.8	365.9	333.1	302.6	10- 20	107.5	148.6	27, 27
30	188.5	213.6	241.2	278.6	294.0	259.7	222.5	191.9	20- 30	133.1	281.7	51.1, 51.1
40	101.8	117.2	140.0	167.3	175.2	152.7	123.2	102.4	30- 40	113.4	395.1	71.7, 71.7
50	52.56	61.15	72.23	87.57	91.50	79.80	63.25	52.49	40- 50	76.06	471.1	85.5, 85.5
60	24.71	29.65	35.80	44.44	45.47	39.94	30.96	24.73	50- 60	44.86	516.0	93.6, 93.6
70	10.38	12.19	15.58	20.42	20.66	17.99	12.54	10.04	60- 70	23.26	539.2	97.8, 97.8
80	2.896	4.212	5.736	7.125	7.224	5.856	3.993	2.604	70- 80	9.909	549.1	99.6, 99.6
90	0.0383	0.0279	0.0488	0.3207	0.2893	0.0453	0.0244	0.0383	80- 90	2.063	551.2	100, 100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 437.63 lm

%lum = 79.4%

%lamp = 79.4%

Conical surface Flux(120deg): 515.97 lm

%lum = 93.6%

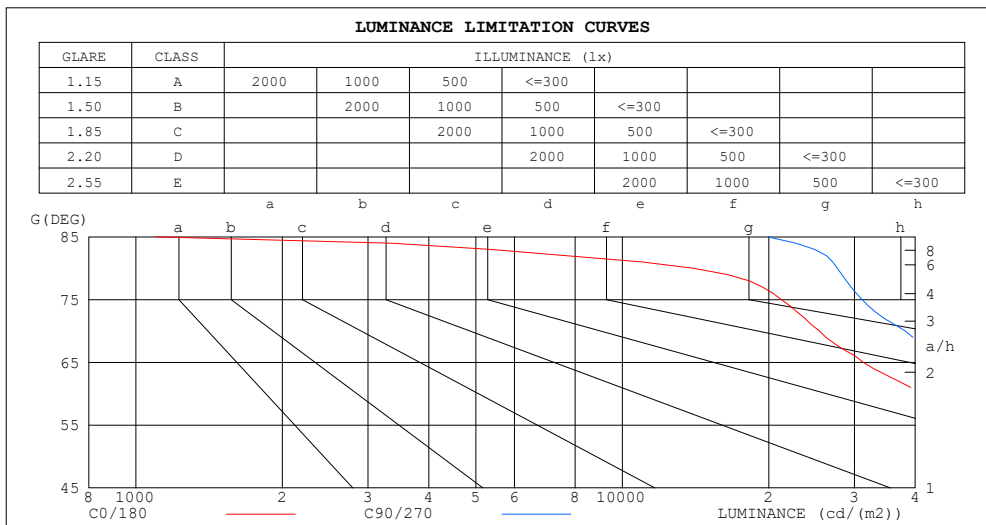
%lamp = 93.6%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jone
 Test Date:2021-03-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.270
 Humidity:65.0%
 Test Distance:7.030m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.17V I:0.0267A P:5.8253W PF:0.9477 Freq:50.00Hz Lamp Flux:551.204x1 lm		
NAME: ECOM-6W	TYPE:3000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1100	19899
80	13969	27664
75	21235	31096
70	25414	38142
65	31268	47848
60	41386	59965
55	53845	74708
50	68478	94109
45	86365	120331

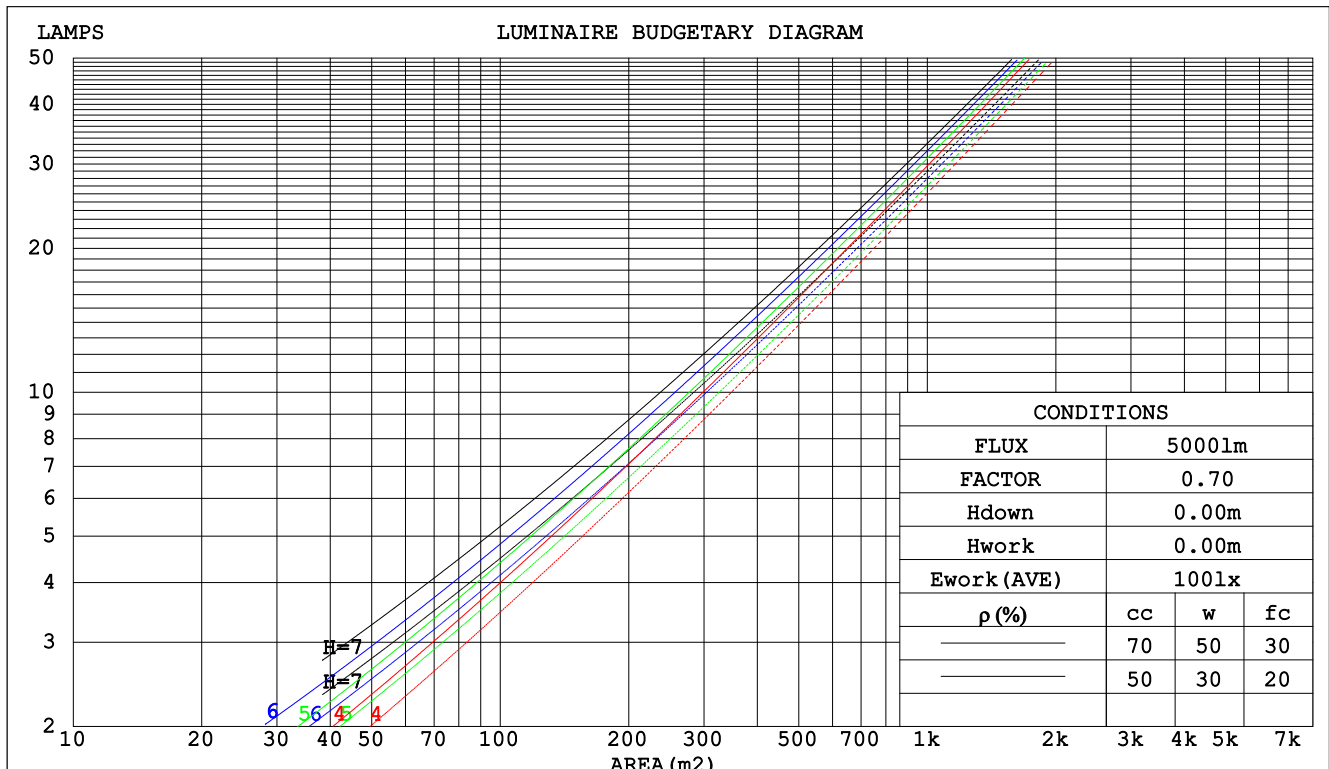
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jone
 Test Date:2021-03-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.270
 Humidity:65.0%
 Test Distance:7.030m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.17V I:0.0267A P:5.8253W PF:0.9477 Freq:50.00Hz Lamp Flux:551.204x1 lm		
NAME: ECOM-6W	TYPE:3000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.08	1.05	1.03	1.06	1.03	1.01	1.02	.00	.98	.98	.96	.95	.95	.93	.92	.90
2.0	.98	.93	.89	.97	.92	.88	.93	.89	.86	.90	.87	.84	.87	.85	.82	.81
3.0	.90	.84	.79	.88	.83	.78	.86	.81	.77	.83	.79	.75	.81	.77	.74	.72
4.0	.82	.75	.70	.81	.75	.70	.79	.73	.69	.76	.72	.68	.74	.70	.67	.65
5.0	.75	.68	.63	.74	.68	.63	.73	.67	.62	.71	.66	.62	.69	.65	.61	.59
6.0	.70	.62	.57	.69	.62	.57	.67	.61	.57	.66	.60	.56	.64	.60	.56	.54
7.0	.65	.57	.52	.64	.57	.52	.62	.56	.52	.61	.56	.52	.60	.55	.51	.50
8.0	.60	.53	.48	.59	.53	.48	.58	.52	.48	.57	.52	.48	.56	.51	.47	.46
9.0	.56	.49	.45	.56	.49	.44	.55	.48	.44	.54	.48	.44	.53	.48	.44	.42
10.0	.53	.46	.41	.52	.46	.41	.51	.45	.41	.50	.45	.41	.50	.44	.41	.39



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jone
 Test Date:2021-03-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.270
 Humidity:65.0%
 Test Distance:7.030m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:230.17V I:0.0267A P:5.8253W PF:0.9477 Freq:50.00Hz Lamp Flux:551.204x1 lm					
NAME: ECOM-6W			TYPE:3000K		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:		Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.223	.127	.040	.216	.123	.039	.203	.117	.037	.191	.110	.035	.180	.105	.034	
2.0	.215	.118	.036	.209	.115	.035	.198	.110	.034	.188	.105	.033	.178	.101	.032	
3.0	.203	.108	.032	.198	.106	.032	.189	.102	.031	.180	.099	.030	.172	.095	.029	
4.0	.192	.100	.029	.188	.098	.029	.179	.095	.028	.172	.092	.028	.164	.089	.027	
5.0	.181	.092	.027	.177	.091	.027	.170	.088	.026	.163	.086	.026	.157	.084	.025	
6.0	.171	.086	.025	.168	.085	.024	.161	.083	.024	.155	.081	.024	.149	.079	.023	
7.0	.162	.080	.023	.159	.079	.023	.153	.077	.022	.147	.076	.022	.142	.074	.022	
8.0	.153	.075	.021	.151	.074	.021	.145	.073	.021	.140	.071	.021	.136	.070	.020	
9.0	.145	.070	.020	.143	.070	.020	.138	.068	.019	.134	.067	.019	.130	.066	.019	
10.0	.138	.066	.018	.136	.066	.018	.132	.065	.018	.128	.064	.018	.124	.062	.018	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.174	.157	.141	.149	.135	.122	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.162	.132	.107	.139	.114	.093	.095	.079	.065	.055	.046	.038	.018	.015	.012	
3.0	.152	.114	.084	.130	.098	.073	.089	.068	.051	.052	.040	.030	.017	.013	.010	
4.0	.143	.100	.067	.123	.086	.058	.084	.060	.041	.049	.035	.024	.016	.011	.008	
5.0	.135	.089	.054	.116	.077	.047	.080	.054	.033	.046	.031	.020	.015	.010	.007	
6.0	.128	.080	.045	.110	.069	.039	.076	.048	.028	.044	.028	.017	.014	.009	.005	
7.0	.121	.073	.038	.104	.063	.033	.072	.044	.024	.042	.026	.014	.014	.009	.005	
8.0	.116	.067	.033	.100	.058	.029	.069	.041	.020	.040	.024	.012	.013	.008	.004	
9.0	.110	.061	.029	.095	.053	.025	.066	.038	.018	.038	.022	.011	.012	.007	.003	
10.0	.105	.057	.025	.091	.050	.022	.063	.035	.016	.037	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jone
Test Date:2021-03-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.270
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.17V I:0.0267A P:5.8253W PF:0.9477 Freq:50.00Hz Lamp Flux:551.204x1 lm										
NAME: ECOM-6W					TYPE:3000K			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					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	26.8	27.9	27.0	28.1	28.3	28.2	29.4	28.4	29.5	29.7
	3H	27.0	28.1	27.3	28.3	28.6	28.6	29.7	28.9	29.9
	4H	27.1	28.2	27.4	28.4	28.6	28.7	29.7	29.0	30.0
	6H	27.2	28.1	27.5	28.4	28.6	28.8	29.8	29.1	30.0
	8H	27.1	28.1	27.5	28.3	28.6	28.8	29.8	29.2	30.0
	12H	27.1	28.0	27.4	28.3	28.5	28.8	29.7	29.2	30.0
4H	2H	27.0	28.0	27.3	28.2	28.5	28.2	29.2	28.5	29.5
	3H	27.4	28.3	27.7	28.5	28.8	28.7	29.6	29.1	29.9
	4H	27.5	28.3	27.9	28.6	29.0	29.0	29.8	29.3	30.1
	6H	27.6	28.3	28.0	28.7	29.0	29.1	29.8	29.5	30.2
	8H	27.6	28.3	28.0	28.6	29.0	29.2	29.8	29.6	30.2
	12H	27.6	28.2	28.0	28.5	28.9	29.2	29.8	29.6	30.2
8H	4H	27.6	28.2	28.0	28.6	29.0	28.9	29.6	29.3	30.0
	6H	27.7	28.3	28.2	28.7	29.1	29.2	29.7	29.6	30.1
	8H	27.7	28.2	28.2	28.6	29.0	29.3	29.7	29.7	30.2
	12H	27.7	28.1	28.1	28.5	29.0	29.3	29.7	29.8	30.1
12H	4H	27.6	28.2	28.0	28.5	28.9	28.9	29.5	29.3	29.9
	6H	27.7	28.2	28.2	28.6	29.1	29.1	29.6	29.6	30.0
	8H	27.7	28.1	28.2	28.6	29.0	29.2	29.6	29.7	30.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.3					+ 0.8 / - 1.0				
1.5H	+ 0.9 / - 0.8					+ 1.2 / - 0.8				
2.0H	+ 1.6 / - 1.6					+ 1.9 / - 1.6				

CIE Pub.117, 551.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.1)
Area: 0.00119398 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jone
Test Date:2021-03-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.270
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.17V I:0.0267A P:5.8253W PF:0.9477 Freq:50.00Hz Lamp Flux:551.204x1 lm		
NAME: ECOM-6W	TYPE:3000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

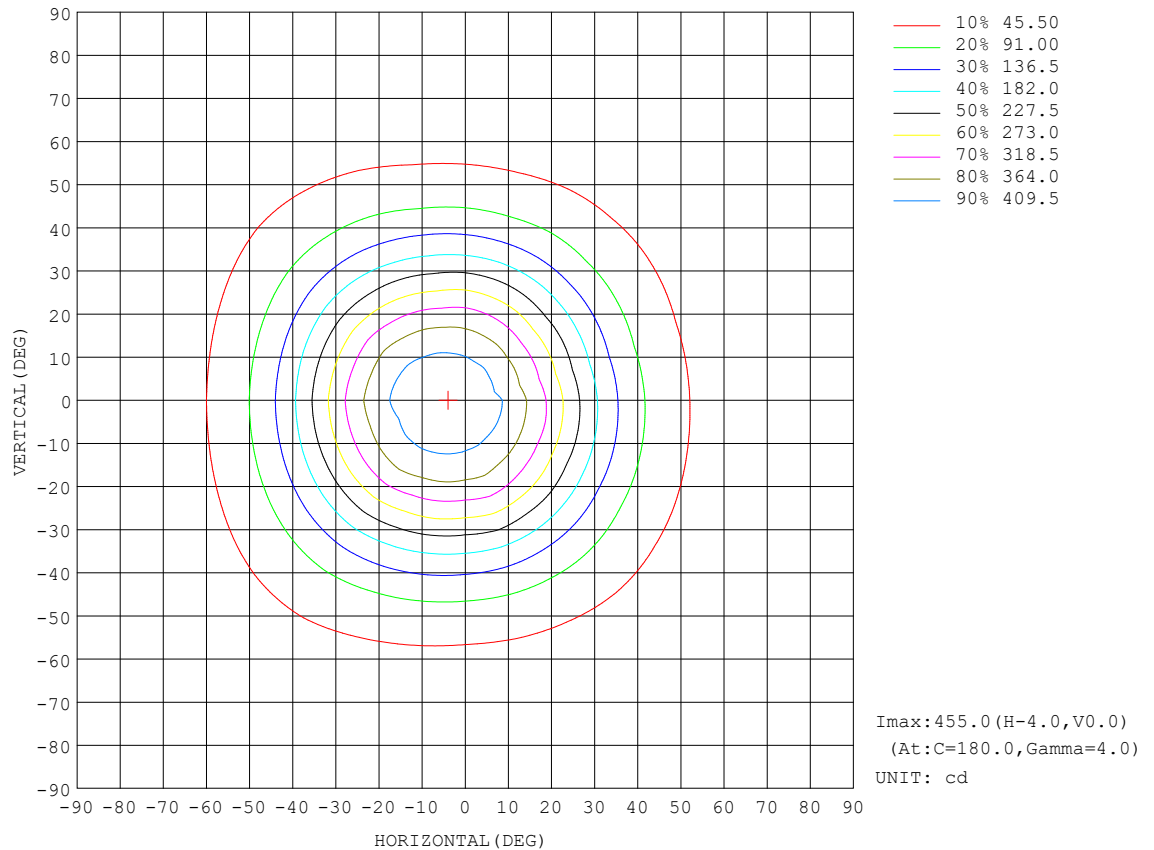
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	74	65	60	73	65	60	72	64	59	55
0.80	83	74	69	82	74	69	81	73	69	63
1.00	90	82	76	89	81	76	87	82	76	70
1.25	95	88	83	94	87	82	92	86	82	76
1.50	99	92	87	97	91	87	95	90	86	80
2.00	103	98	93	102	96	92	99	94	91	85
2.50	106	101	96	104	99	96	101	97	94	87
3.00	108	104	100	106	102	99	103	99	96	89
4.00	111	107	104	109	105	103	105	102	100	92
5.00	113	109	107	110	107	105	106	104	102	94
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jone
Test Date:2021-03-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.270
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.17V I:0.0267A P:5.8253W PF:0.9477 Freq:50.00Hz Lamp Flux:551.204x1 lm		
NAME: ECOM-6W	TYPE:3000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

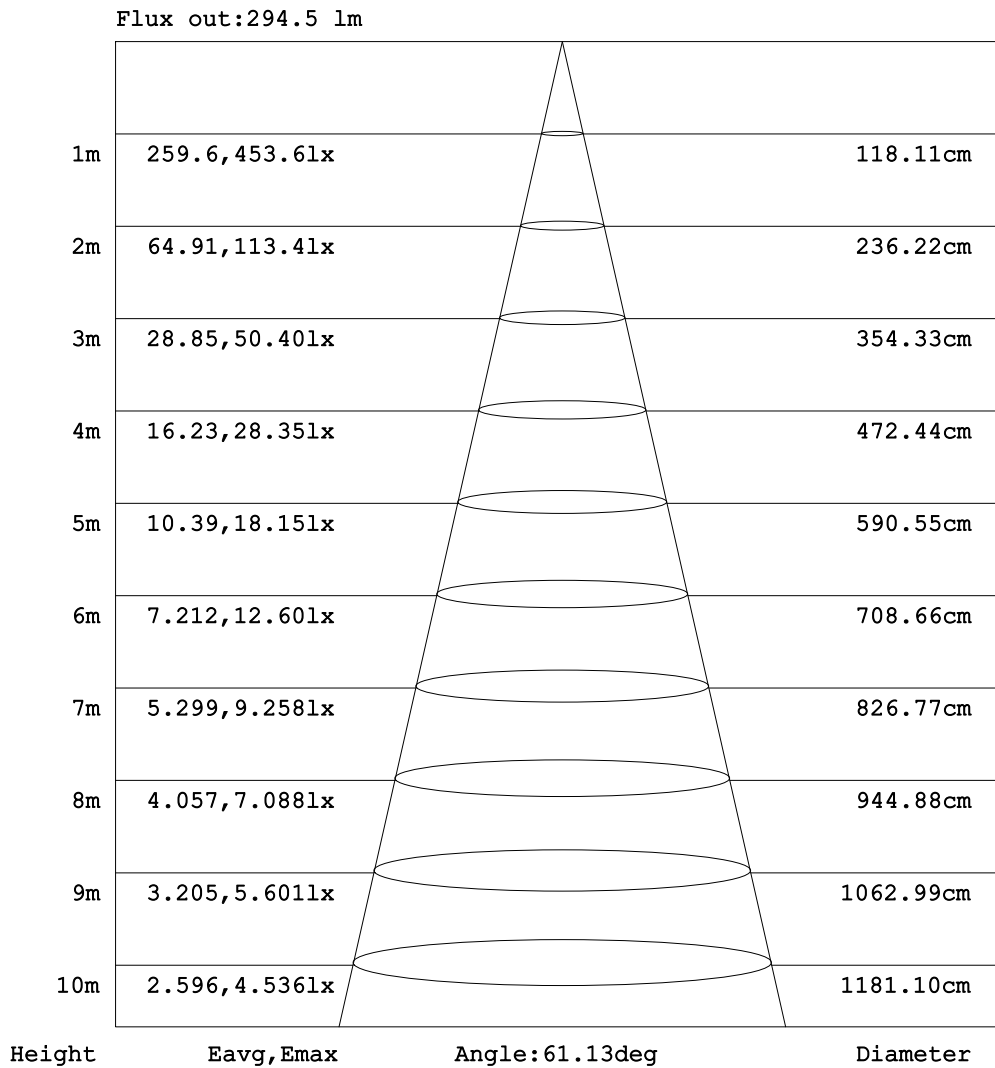


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jone
Test Date:2021-03-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.270
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.17V I:0.0267A P:5.8253W PF:0.9477 Freq:50.00Hz Lamp Flux:551.204x1 lm		
NAME: ECOM-6W	TYPE:3000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



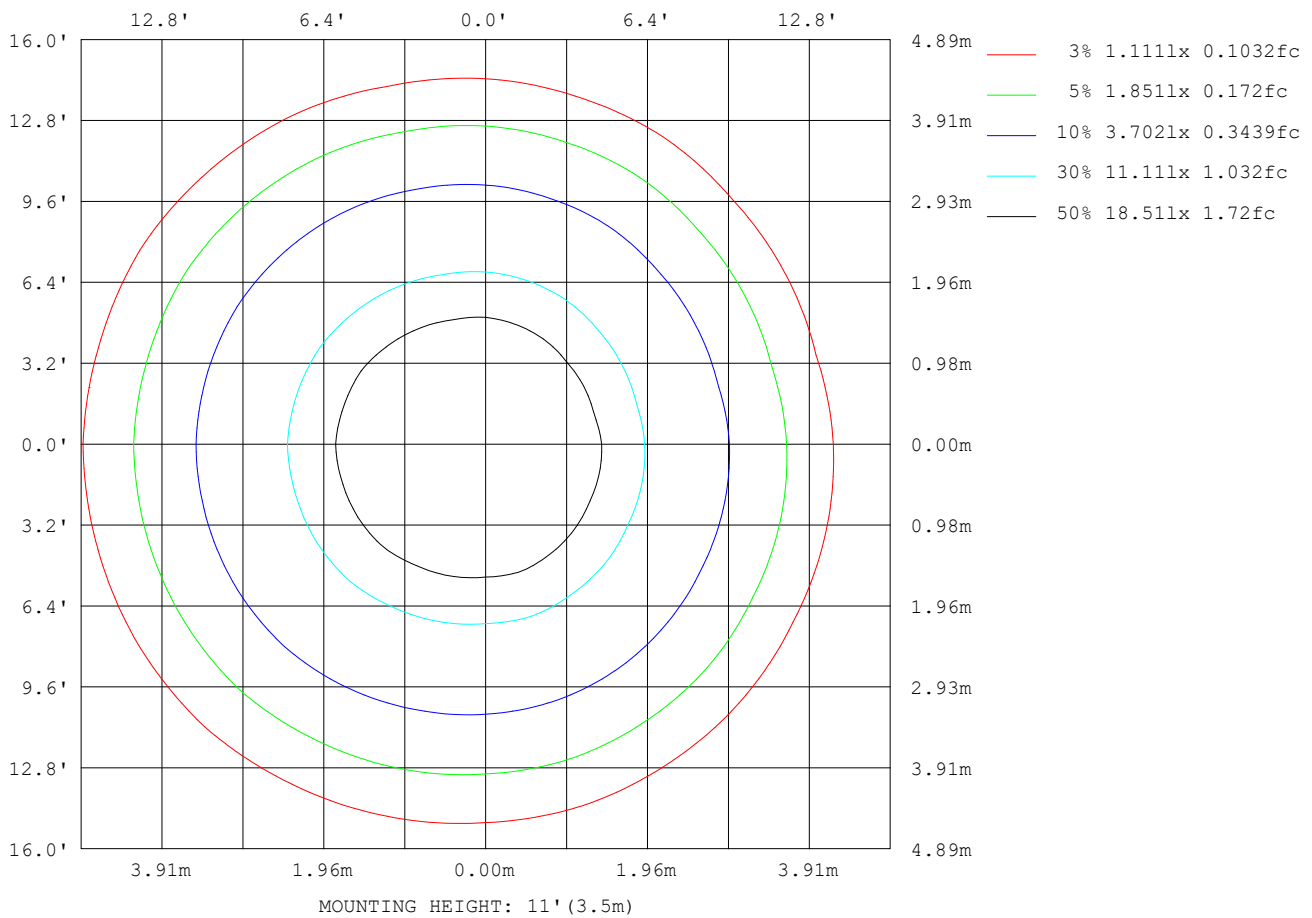
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jone
 Test Date: 2021-03-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.270
 Humidity: 65.0%
 Test Distance: 7.030m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:230.17V I:0.0267A P:5.8253W PF:0.9477 Freq:50.00Hz Lamp Flux:551.204x1 lm		
NAME: ECOM-6W	TYPE:3000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jone
 Test Date:2021-03-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.270
 Humidity:65.0%
 Test Distance:7.030m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:230.17V I:0.0267A P:5.8253W PF:0.9477 Freq:50.00Hz Lamp Flux:551.204x1 lm		
NAME: ECOM-6W	TYPE:3000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

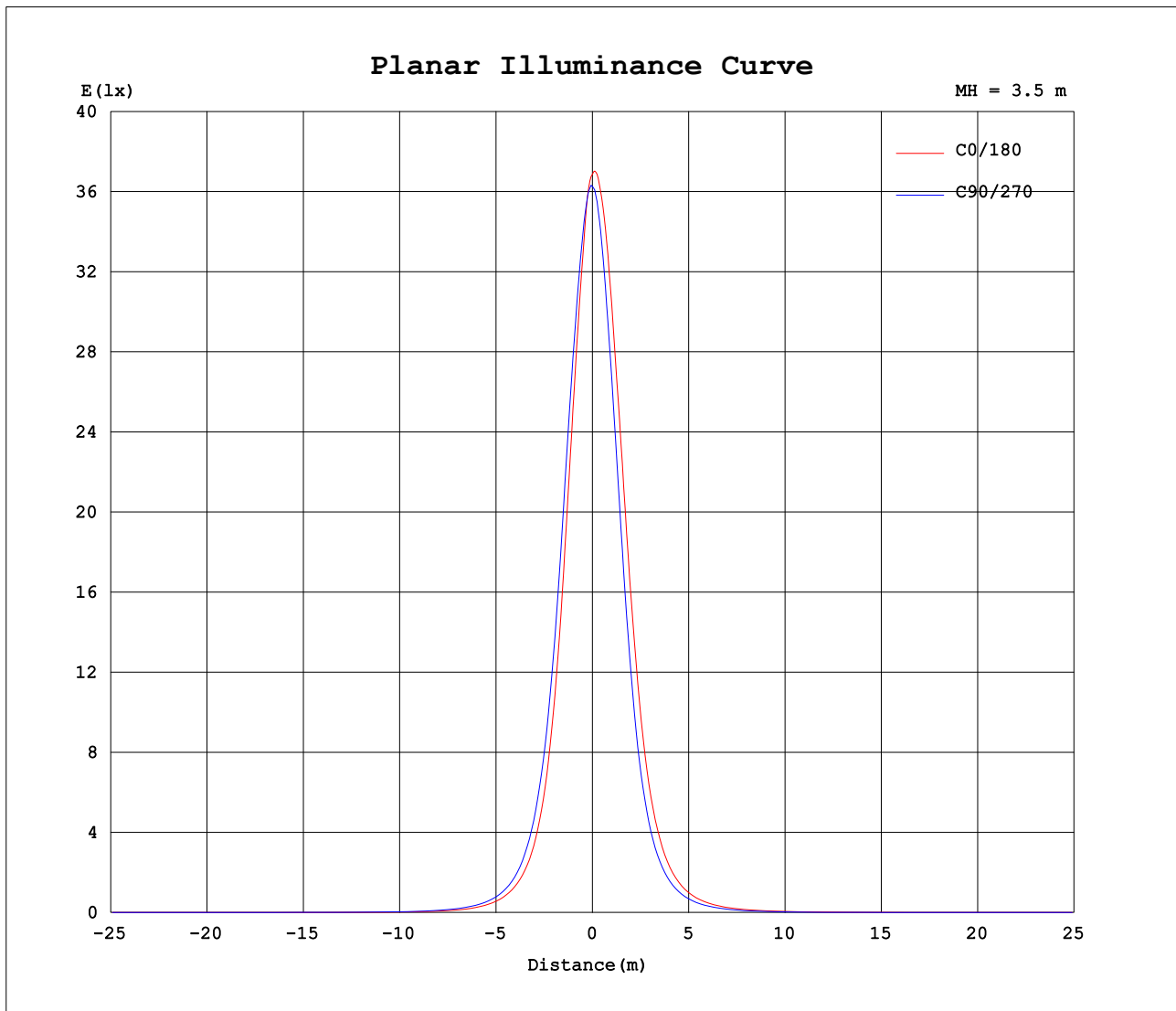
AvgL	cd/m2
L_0~180 (65) av	46502
L_0~180 (75) av	30933
L_0~180 (85) av	17030
L_90~270 (65) av	44042
L_90~270 (75) av	27838
L_90~270 (85) av	13006
L_45 (65) av	46226
L_45 (75) av	29720
L_45 (85) av	15018

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jone
Test Date:2021-03-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.270
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jone
Test Date: 2021-03-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.270
Humidity: 65.0%
Test Distance: 7.030m [K=1.0000]
Remarks:

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γ Interval: 1.0DEG
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