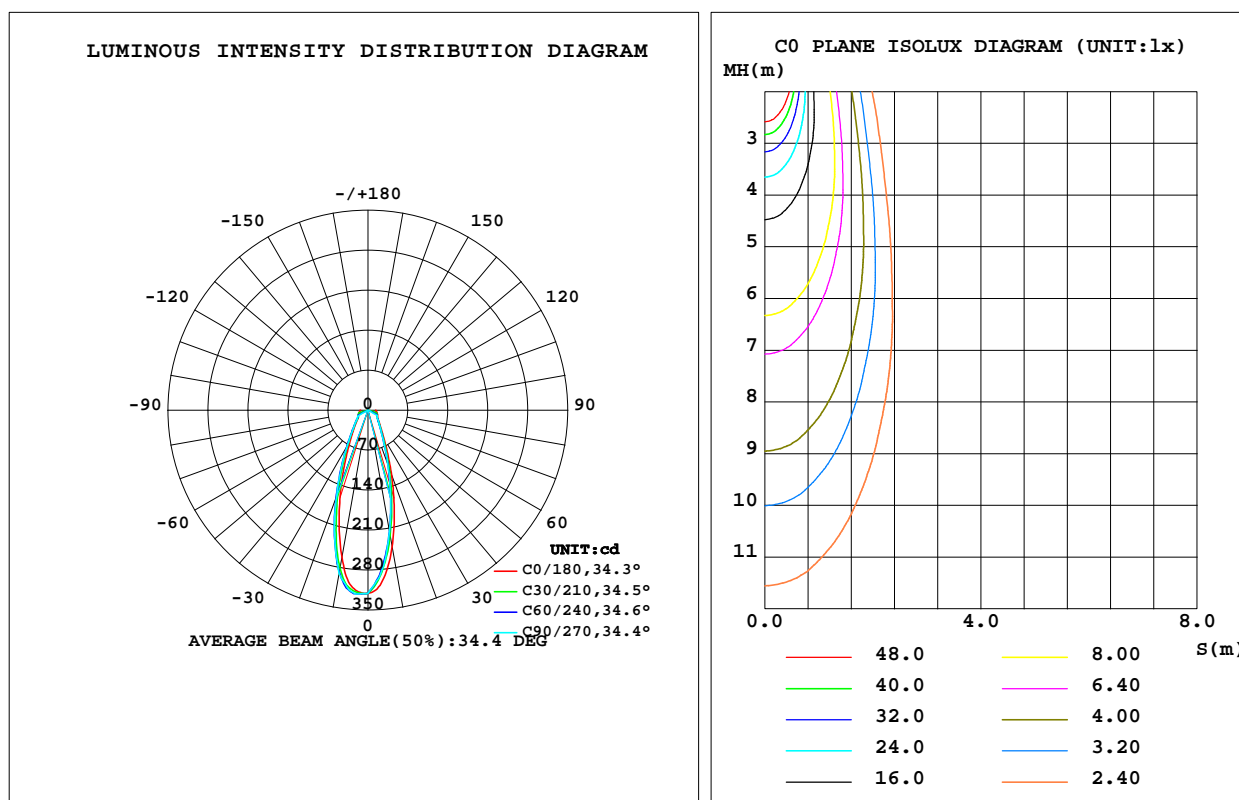


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: PW030001-CM	TYPE:LED	WEIGHT:0.359(Kg)
DIM.: D110*310	SPEC.:	SERIAL No.:
MFR.:	SUR.:f40	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 38.13 lm/W			
MODEL		I _{max} (cd)	322.7	S/MH(C0/180)	0.54
NOMINAL POWER(W)	5	LOR(%)	100.0	S/MH(C90/270)	0.48
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	208.17	h UP,DN(C0-180)	0.0,45.4
NOMINAL FLUX(lm)	208.169	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,54.6
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	219.1	h down(%)	100.0	CIBSE SHR MAX	0.60



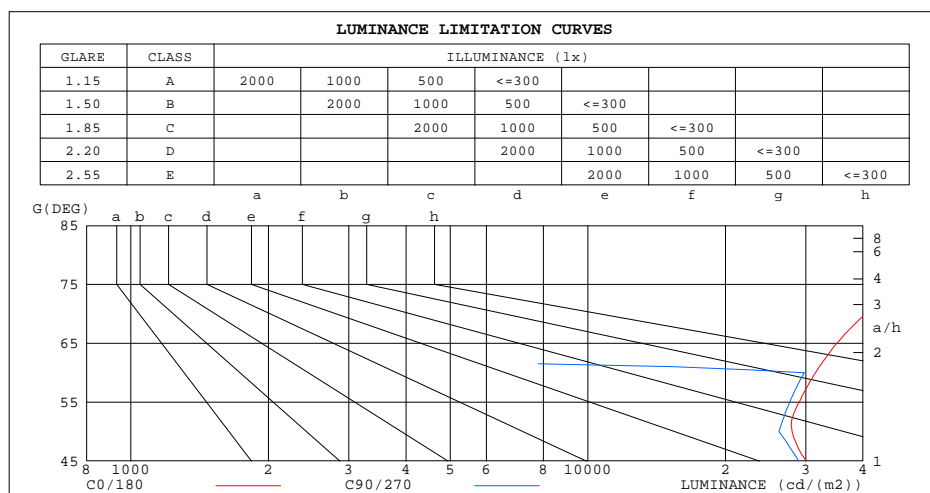
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-10

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:9.650m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
5	298.9	280.1	281.8	291.8	311.9	319.3	319.5	310.2	0- 5	7.401	7.401	3.56,3.56
10	243.8	219.1	216.9	234.6	261.9	285.2	291.5	264.7	5- 10	19.73	27.13	13,13
15	178.2	156.7	153.3	168.3	195.9	223.1	226.6	204.7	10- 15	25.84	52.98	25.4,25.4
20	121.9	105.5	101.7	114.0	135.7	160.4	162.0	141.4	15- 20	25.85	78.83	37.9,37.9
25	80.59	71.51	69.94	76.78	91.21	109.1	110.8	95.10	20- 25	22.47	101.3	48.7,48.7
30	55.58	50.45	48.95	54.27	63.14	74.20	72.97	64.38	25- 30	18.43	119.7	57.5,57.5
35	41.03	37.83	37.86	40.95	46.49	52.87	52.11	45.81	30- 35	15.19	134.9	64.8,64.8
40	32.39	30.32	30.21	32.37	36.00	39.47	38.59	35.48	35- 40	12.99	147.9	71.1,71.1
45	26.68	24.94	25.68	26.52	28.90	31.31	31.88	28.64	40- 45	11.48	159.4	76.6,76.6
50	22.59	21.33	21.15	21.98	23.58	25.25	25.18	23.87	45- 50	10.33	169.7	81.5,81.5
55	20.89	19.93	19.92	20.19	20.58	22.10	22.74	21.50	50- 55	9.527	179.2	86.1,86.1
60	19.78	18.80	18.69	18.92	19.55	20.16	20.30	20.02	55- 60	9.330	188.6	90.6,90.6
65	18.61	17.68	0	17.78	18.50	19.08	0	18.96	60- 65	7.434	196.0	94.2,94.2
70	17.45	0	0	0	17.42	0	0	0	65- 70	4.903	200.9	96.5,96.5
75	16.30	0	0	0	16.34	0	0	0	70- 75	3.398	204.3	98.1,98.1
80	15.25	0	0	0	15.26	0	0	0	75- 80	2.214	206.5	99.2,99.2
85	14.28	0	0	0	14.24	0	0	0	80- 85	1.239	207.8	99.8,99.8
90	13.68	0	0	0	13.25	0	0	0	85- 90	0.4026	208.2	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



LUMINANCE cd/(m2)		
G(°)	C0/180	C90/270
85	130413	0
80	69942	0
75	50140	0
70	40620	0
65	35063	0
60	31497	29755
55	28994	27651
50	27978	26202
45	30037	28918

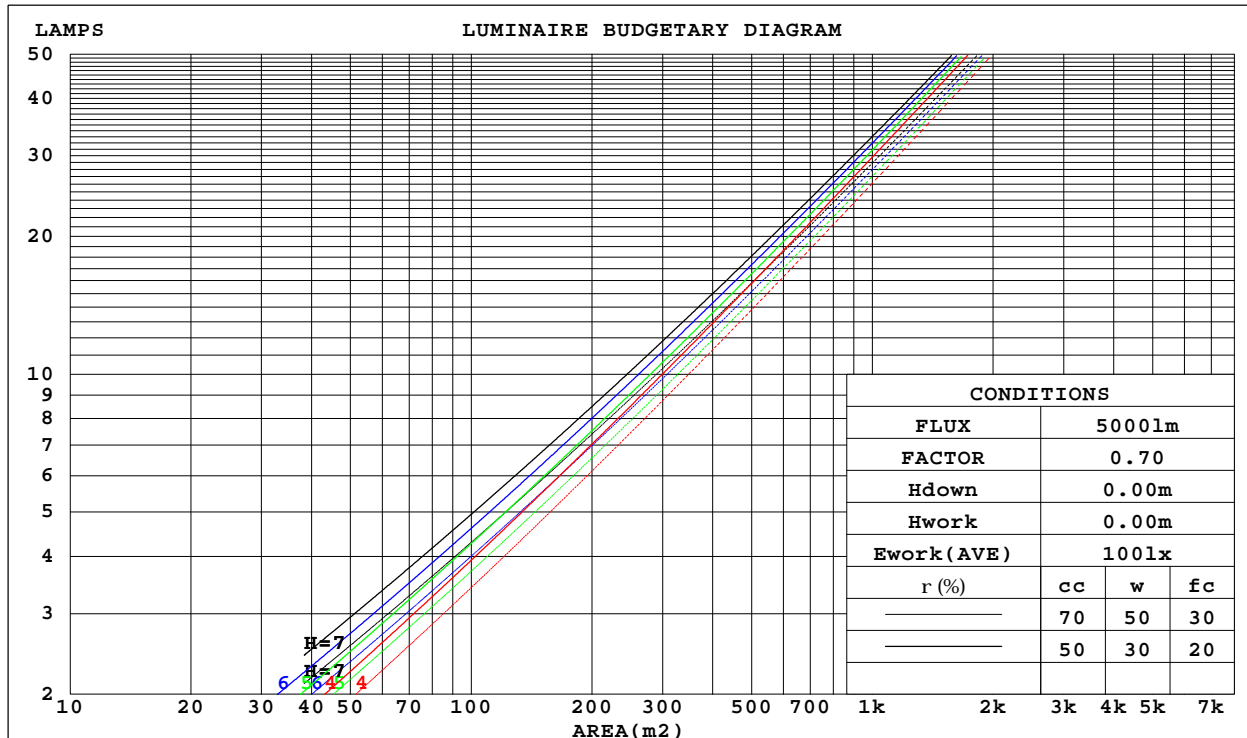
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-10

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:9.650m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: PW030001-CM	TYPE:LED	WEIGHT:0.359(Kg)
DIM.: D110*310	SPEC.:	SERIAL No.:
MFR.:	SUR.:f40	PROTECTION ANGLE:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-10

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:9.650m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: PW030001-CM	TYPE:LED	WEIGHT:0.359(Kg)
DIM.: D110*310	SPEC.:	SERIAL No.:
MFR.:	SUR.:f40	PROTECTION ANGLE:

rcc	80%	70%	50%	30%	10%	0
rw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
rfc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)					
0.0						
1.0	.226 .128 .041	.219 .125 .040	.206 .118 .038	.194 .112 .036	.183 .106 .034	
2.0	.214 .117 .036	.208 .115 .035	.197 .110 .034	.187 .105 .033	.178 .100 .032	
3.0	.200 .107 .032	.195 .105 .031	.186 .101 .031	.177 .097 .030	.169 .093 .029	
4.0	.187 .097 .029	.183 .096 .028	.174 .092 .028	.167 .090 .027	.160 .087 .026	
5.0	.175 .089 .026	.171 .088 .026	.164 .085 .025	.157 .083 .025	.151 .081 .024	
6.0	.164 .082 .024	.161 .081 .023	.154 .079 .023	.148 .077 .023	.143 .075 .022	
7.0	.154 .076 .022	.151 .075 .021	.146 .074 .021	.140 .072 .021	.135 .070 .021	
8.0	.145 .071 .020	.143 .070 .020	.138 .069 .020	.133 .067 .019	.129 .066 .019	
9.0	.138 .067 .019	.135 .066 .018	.131 .065 .018	.126 .063 .018	.122 .062 .018	
10.0	.130 .063 .017	.128 .062 .017	.124 .061 .017	.120 .060 .017	.117 .059 .017	

rcc	80%	70%	50%	30%	10%	0
rw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
rfc	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 .121	.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	.151 .114 .084	.130 .098 .073	.089 .068 .051	.051 .040 .030	.016 .013 .010	
4.0	.142 .100 .068	.121 .086 .059	.084 .060 .041	.048 .035 .024	.016 .011 .008	
5.0	.133 .088 .055	.114 .076 .048	.079 .053 .034	.046 .031 .020	.015 .010 .007	
6.0	.125 .079 .046	.108 .069 .040	.074 .048 .029	.043 .028 .017	.014 .009 .006	
7.0	.119 .072 .039	.102 .062 .034	.070 .044 .024	.041 .026 .014	.013 .008 .005	
8.0	.112 .066 .034	.097 .057 .029	.067 .040 .021	.039 .024 .012	.013 .008 .004	
9.0	.107 .061 .030	.092 .053 .026	.064 .037 .018	.037 .022 .011	.012 .007 .004	
10.0	.102 .056 .026	.088 .049 .023	.061 .034 .016	.035 .020 .010	.011 .007 .003	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-10

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:9.650m [K=1.0000]
Remarks:

Uncorrected UGR Table

NAME: PW030001-CM						TYPE:LED		WEIGHT:0.359(Kg)			
DIM.: D110*310						SPEC.:		SERIAL No.:			
MFR.:						SUR.:f40		PROTECTION 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	23.0	24.1	23.2	24.3	24.5	21.7	22.8	21.9	23.0	23.2	
	3H	25.6	26.6	25.9	26.8	27.0	21.5	22.6	21.8	22.8	23.0
	4H	27.1	28.1	27.4	28.3	28.5	21.4	22.4	21.7	22.6	22.9
	6H	28.7	29.7	29.1	29.9	30.2	21.3	22.3	21.6	22.5	22.8
	8H	29.7	30.6	30.0	30.9	31.1	21.3	22.2	21.6	22.4	22.7
	12H	30.8	31.6	31.1	31.9	32.2	21.2	22.1	21.5	22.4	22.6
4H	2H	23.7	24.7	24.0	24.9	25.1	22.6	23.6	22.9	23.8	24.0
	3H	26.5	27.4	26.8	27.6	27.9	22.4	23.2	22.7	23.5	23.8
	4H	28.1	28.9	28.5	29.2	29.5	22.3	23.1	22.6	23.4	23.7
	6H	29.9	30.6	30.3	30.9	31.3	22.2	22.9	22.6	23.2	23.6
	8H	30.9	31.6	31.3	31.9	32.3	22.1	22.8	22.5	23.1	23.5
	12H	32.0	32.6	32.4	33.0	33.4	22.1	22.7	22.5	23.1	23.5
8H	4H	28.0	28.6	28.4	29.0	29.3	22.6	23.3	23.0	23.6	24.0
	6H	29.7	30.3	30.2	30.7	31.1	22.5	23.0	22.9	23.4	23.9
	8H	30.8	31.2	31.2	31.7	32.1	22.5	22.9	22.9	23.4	23.8
	12H	31.9	32.3	32.4	32.7	33.2	22.4	22.8	22.9	23.3	23.7
12H	4H	27.9	28.5	28.3	28.9	29.3	22.6	23.2	23.0	23.6	24.0
	6H	29.7	30.2	30.2	30.6	31.0	22.5	23.0	23.0	23.4	23.9
	8H	30.7	31.1	31.2	31.6	32.0	22.5	22.9	22.9	23.3	23.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.5					
1.5H	+ 0.5 / - 0.2					+ 1.3 / - 2.1					
2.0H	+ 0.7 / - 1.5					+ 1.0 / - 1.8					

CIE Pub.117 Corrected 208.2 lm Total Lamp Luminous Flux.(8log(F/F0) = -5.5)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-10

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:9.650m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: PW030001-CM	TYPE:LED	WEIGHT:0.359(Kg)
DIM.: D110*310	SPEC.:	SERIAL No.:
MFR.:	SUR.:f40	PROTECTION ANGLE:

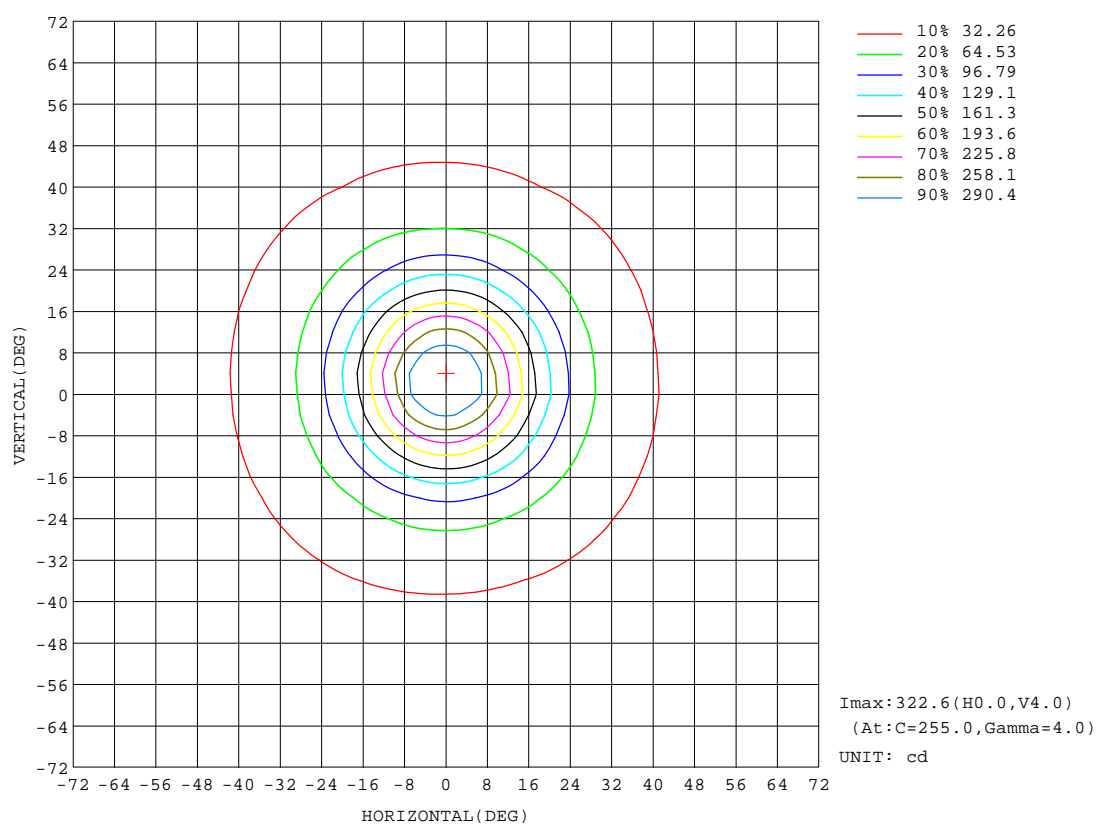
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	74	65	59	73	65	59	72	64	59	54
0.80	82	74	68	81	73	68	80	73	68	63
1.00	89	81	75	88	80	75	86	81	75	69
1.25	94	87	81	93	86	81	91	85	80	75
1.50	98	91	86	97	90	85	94	88	84	79
2.00	103	96	92	101	95	91	98	93	90	83
2.50	105	100	95	103	98	94	100	96	93	86
3.00	108	103	99	106	101	98	102	98	95	88
4.00	110	106	103	108	105	102	104	102	99	91
5.00	112	109	106	110	107	104	106	103	101	93
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-10

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:9.650m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: PW030001-CM	TYPE:LED	WEIGHT:0.359(Kg)
DIM.: D110*310	SPEC.:	SERIAL No.:
MFR.:	SUR.:f40	PROTECTION ANGLE:

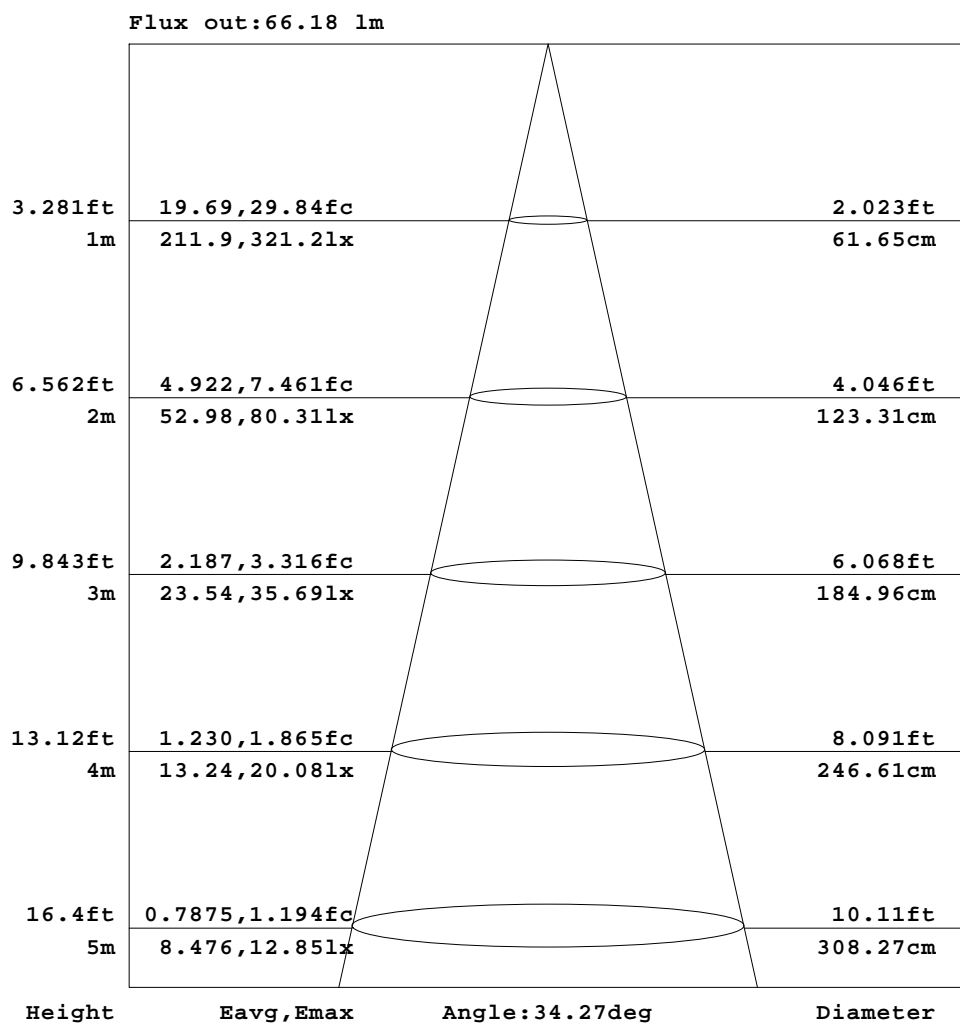


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZENGQG
Test Date: 2019-11-10

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 9.650m [K=1.0000]
Remarks:

AAI Figure

NAME: PW030001-CM	TYPE:LED	WEIGHT:0.359(Kg)
DIM.: D110*310	SPEC.:	SERIAL No.:
MFR.:	SUR.:f40	PROTECTION ANGLE:



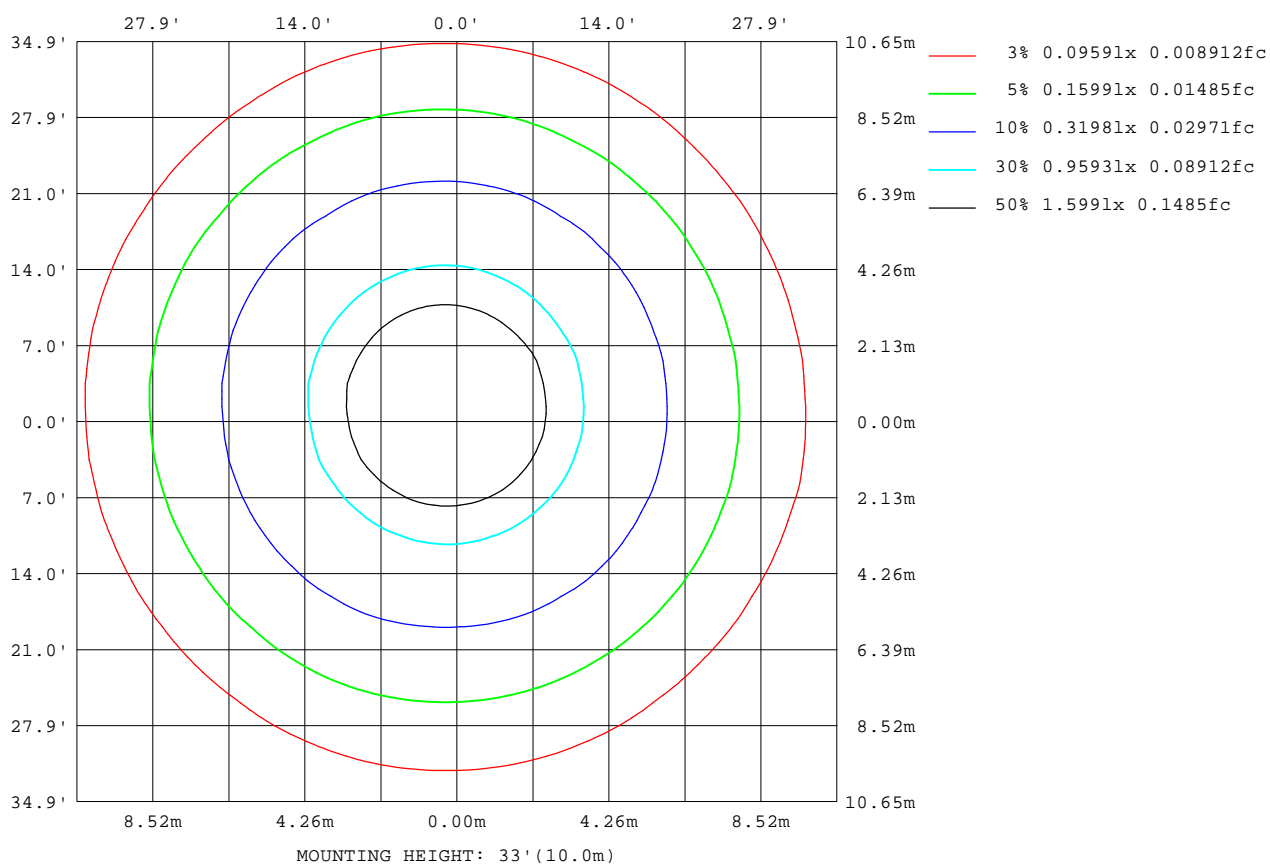
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-10

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:9.650m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

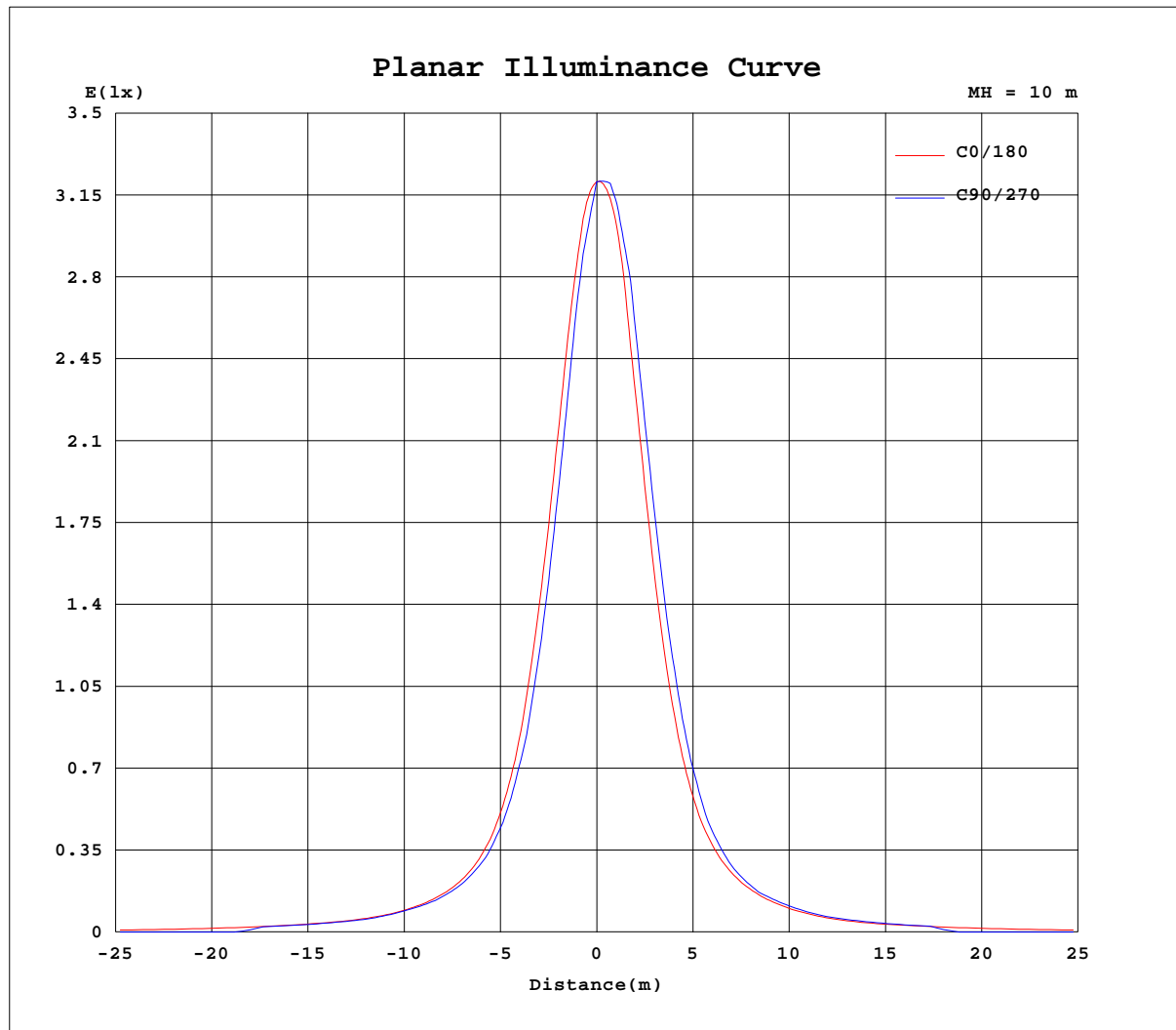
NAME: PW030001-CM	TYPE:LED	WEIGHT:0.359(Kg)
DIM.: D110*310	SPEC.:	SERIAL No.:
MFR.:	SUR.:f40	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 5.0DEG
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g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:9.650m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZENGQG
Test Date: 2019-11-10

g Range: 0 - 90DEG
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