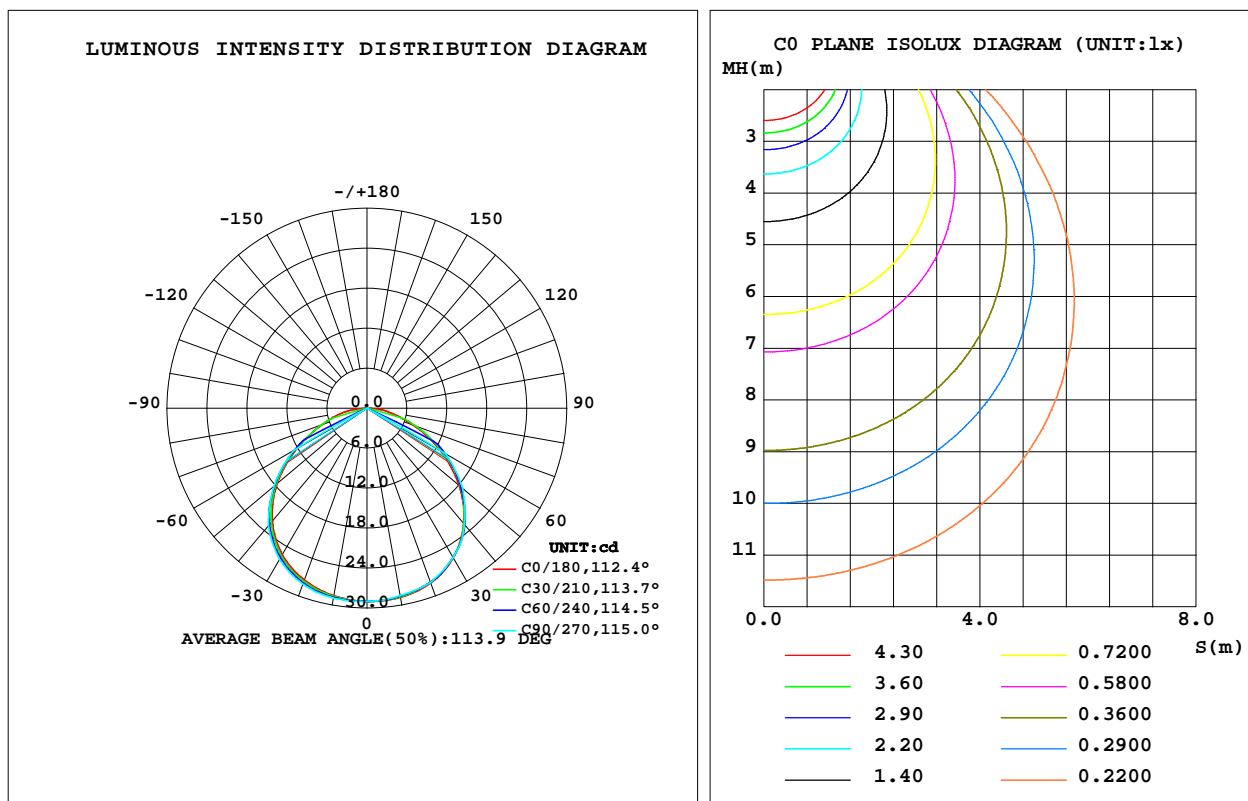


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: PW130107-VM/AL	TYPE:	WEIGHT:1.396(Kg)
DIM.: D260*40	SPEC.:	SERIAL No.:
MFR.:	SUR.:f260	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 9.59 lm/W
MODEL		I <sub>max</sub> (cd)	29.04	S/MH(C0/180)	1.32	
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	1.33	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	77.213	h UP,DN(C0-180)	0.0,50.2	
NOMINAL FLUX(lm)	77.2135	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,49.8	
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	119.5	h down(%)	100.0	CIBSE SHR MAX	1.35	



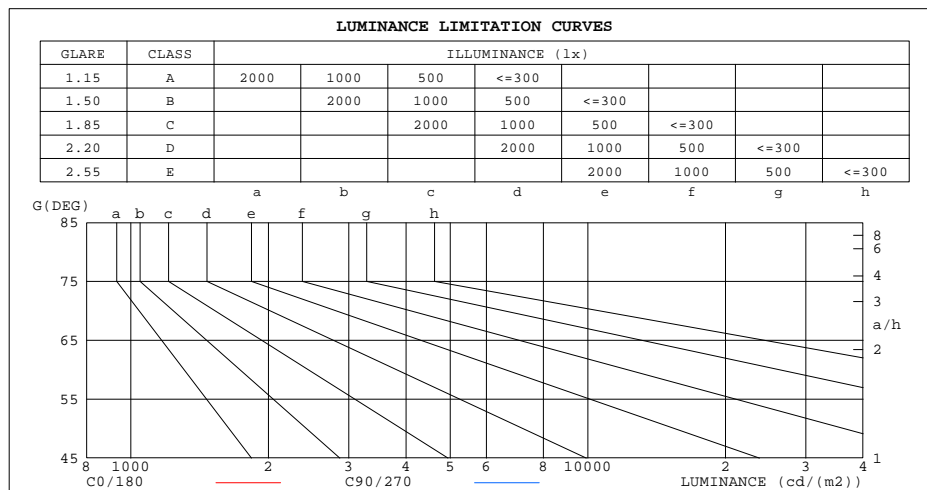
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-12-09

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	28.99	28.93	28.88	28.86	28.87	28.94	29.01	29.02	0- 5	0.6925	0.6925	0.90,0.90
10	28.83	28.69	28.58	28.54	28.58	28.75	28.95	28.93	5- 10	2.063	2.755	3.57,3.57
15	28.50	28.31	28.27	28.08	28.12	28.39	28.65	28.67	10- 15	3.387	6.143	7.96,7.96
20	27.93	27.77	27.85	27.54	27.46	27.83	28.12	28.15	15- 20	4.632	10.78	14.14
25	27.08	27.01	26.92	26.80	26.56	26.93	27.29	27.31	20- 25	5.750	16.53	21.4,21.4
30	25.91	25.88	25.86	25.72	25.42	25.78	26.23	26.13	25- 30	6.689	23.21	30.1,30.1
35	24.40	24.40	24.59	24.32	23.90	24.34	24.73	24.63	30- 35	7.407	30.62	39.7,39.7
40	22.59	22.76	22.78	22.63	22.08	22.53	23.05	22.91	35- 40	7.859	38.48	49.8,49.8
45	20.46	20.81	20.77	20.75	19.99	20.49	20.65	20.66	40- 45	8.004	46.48	60.2,60.2
50	18.04	18.41	18.75	18.36	17.58	18.16	18.25	18.18	45- 50	7.827	54.31	70.3,70.3
55	15.38	15.84	16.16	15.71	14.92	15.31	15.49	15.37	50- 55	7.340	61.65	79.8,79.8
60	12.64	13.23	13.56	13.04	12.19	12.50	12.73	12.63	55- 60	6.559	68.21	88.3,88.3
65	9.907	10.61	0	10.19	9.448	9.637	0	9.951	60- 65	4.503	72.71	94.2,94.2
70	7.213	0	0	0	7.110	0	0	0	65- 70	2.387	75.10	97.3,97.3
75	4.970	0	0	0	5.193	0	0	0	70- 75	1.277	76.38	98.9,98.9
80	3.210	0	0	0	3.417	0	0	0	75- 80	0.6084	76.99	99.7,99.7
85	0.9048	0	0	0	0.7921	0	0	0	80- 85	0.2102	77.20	100,100
90	0.1337	0	0	0	0.1668	0	0	0	85- 90	0.0169	77.21	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(DEG)	C0/180	C90/270
85	196	0
80	348	0
75	362	0
70	397	0
65	442	0
60	476	511
55	505	531
50	529	549
45	545	553

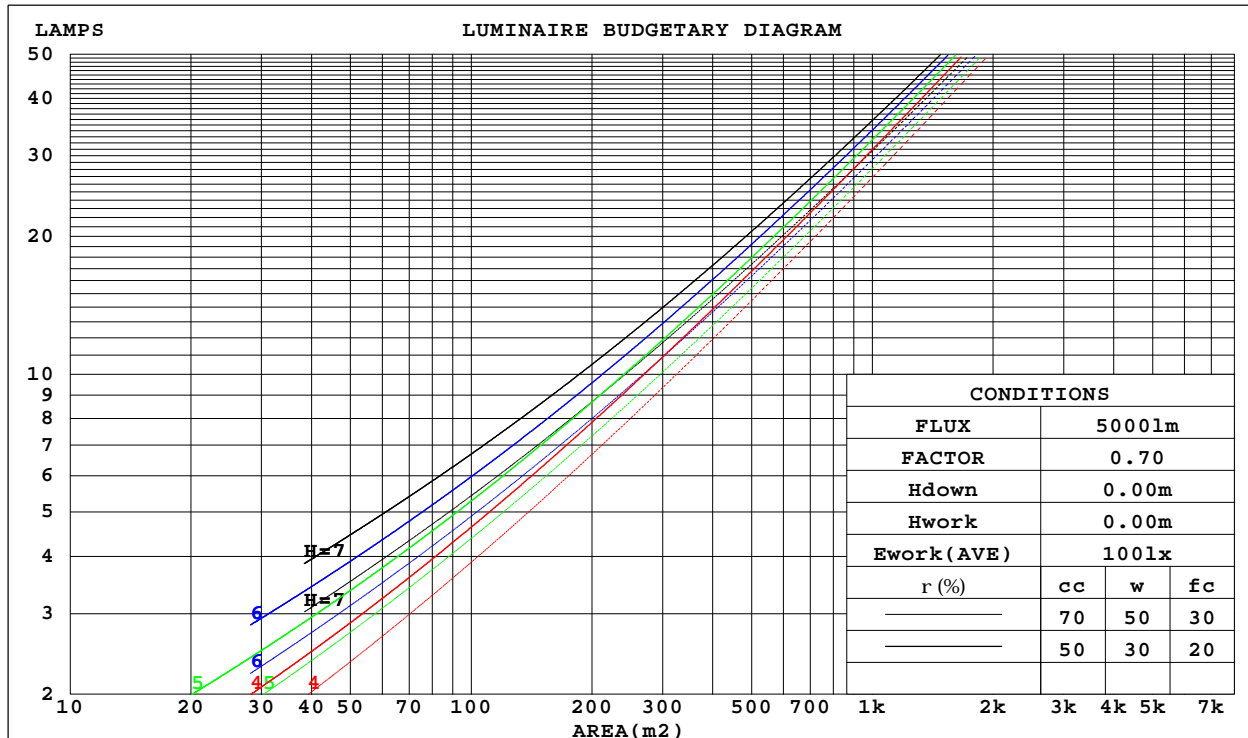
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-12-09

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: PW130107-VM/AL	TYPE:	WEIGHT:1.396(Kg)
DIM.: D260*40	SPEC.:	SERIAL No.:
MFR.:	SUR.:f260	PROTECTION ANGLE:

r <sub>cc</sub>	80%			70%			50%			30%			10%			0
r <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r <sub>fc</sub>	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	1.06	1.03	.99	1.04	1.01	.98	.90	.97	.95	.96	.94	.92	.92	.91	.89	.87
2.0	.94	.88	.83	.92	.86	.82	.89	.84	.80	.85	.82	.78	.82	.79	.76	.74
3.0	.83	.76	.70	.82	.75	.69	.79	.73	.68	.76	.71	.67	.74	.69	.66	.64
4.0	.74	.66	.60	.73	.65	.59	.70	.64	.58	.68	.62	.58	.66	.61	.57	.55
5.0	.66	.58	.52	.65	.57	.51	.63	.56	.51	.61	.55	.50	.59	.54	.50	.48
6.0	.60	.51	.45	.59	.51	.45	.57	.50	.44	.55	.49	.44	.54	.48	.44	.42
7.0	.54	.46	.40	.53	.45	.40	.52	.45	.39	.50	.44	.39	.49	.43	.39	.37
8.0	.49	.41	.36	.49	.41	.35	.47	.40	.35	.46	.40	.35	.45	.39	.35	.33
9.0	.45	.37	.32	.45	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.31	.30
10.0	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.29	.38	.33	.28	.27



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-12-09

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: PW130107-VM/AL	TYPE:	WEIGHT:1.396(Kg)
DIM.: D260*40	SPEC.:	SERIAL No.:
MFR.:	SUR.:f260	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	.264	.150	.048	.257	.146	.047	.244	.140	.045	.232	.134	.043	.221	.128	.041	
2.0	.258	.142	.043	.252	.139	.043	.241	.134	.042	.230	.129	.040	.221	.125	.039	
3.0	.245	.131	.039	.240	.129	.039	.230	.125	.038	.221	.121	.037	.212	.117	.036	
4.0	.231	.120	.035	.226	.118	.035	.217	.115	.034	.209	.112	.034	.201	.109	.033	
5.0	.217	.110	.032	.212	.109	.032	.204	.106	.031	.197	.104	.031	.190	.102	.031	
6.0	.203	.102	.029	.199	.101	.029	.192	.099	.029	.186	.096	.028	.179	.094	.028	
7.0	.191	.094	.027	.187	.093	.027	.181	.091	.026	.175	.090	.026	.169	.088	.026	
8.0	.179	.088	.025	.176	.087	.025	.170	.085	.024	.165	.084	.024	.160	.082	.024	
9.0	.169	.082	.023	.166	.081	.023	.161	.080	.023	.156	.078	.022	.152	.077	.022	
10.0	.159	.076	.021	.157	.076	.021	.152	.075	.021	.148	.073	.021	.144	.072	.021	

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	.177	.157	.138	.152	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.168	.132	.102	.144	.114	.088	.098	.079	.062	.057	.046	.036	.018	.015	.012	
3.0	.160	.114	.078	.137	.098	.067	.094	.068	.047	.054	.040	.028	.017	.013	.009	
4.0	.152	.101	.061	.131	.087	.053	.090	.061	.037	.052	.035	.022	.017	.012	.007	
5.0	.145	.090	.049	.125	.078	.043	.086	.054	.030	.050	.032	.018	.016	.010	.006	
6.0	.139	.082	.041	.119	.071	.035	.082	.049	.025	.048	.029	.015	.015	.010	.005	
7.0	.132	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
8.0	.126	.069	.030	.109	.060	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.104	.056	.023	.072	.039	.016	.042	.023	.010	.014	.008	.003	
10.0	.115	.060	.023	.099	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-12-09

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: PW130107-VM/AL					TYPE:		WEIGHT:1.396(Kg)				
DIM.: D260*40					SPEC.:		SERIAL No.:				
MFR.:					SUR.:f260		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	10.9	12.3	11.2	12.5	12.7	10.3	11.8	10.6	12.0	12.2	
	12.2	13.6	12.5	13.8	14.0	10.1	11.4	10.4	11.7	11.9	
	12.8	14.0	13.1	14.2	14.5	10.0	11.3	10.3	11.5	11.8	
	13.2	14.3	13.5	14.6	14.9	9.9	11.1	10.2	11.3	11.6	
	13.3	14.4	13.6	14.7	15.0	9.9	11.0	10.2	11.3	11.5	
	13.3	14.4	13.7	14.7	15.0	9.8	10.9	10.2	11.2	11.5	
4H	2H	11.4	12.7	11.7	12.9	13.2	10.9	12.1	11.2	12.4	12.6
	12.9	14.0	13.3	14.3	14.6	10.7	11.7	11.0	12.0	12.3	
	13.5	14.5	13.9	14.8	15.1	10.6	11.5	10.9	11.8	12.2	
	14.0	14.9	14.4	15.2	15.6	10.5	11.3	10.9	11.7	12.0	
	14.2	15.0	14.6	15.3	15.7	10.4	11.2	10.8	11.6	12.0	
	14.3	15.0	14.7	15.4	15.8	10.4	11.1	10.8	11.5	11.9	
8H	4H	13.4	14.2	13.8	14.5	14.9	10.6	11.4	11.0	11.7	12.1
	13.9	14.5	14.3	14.9	15.4	10.5	11.2	10.9	11.6	12.0	
	14.1	14.6	14.5	15.1	15.5	10.5	11.0	10.9	11.5	11.9	
	14.1	14.6	14.6	15.1	15.6	10.4	10.9	10.9	11.4	11.8	
12H	4H	13.3	14.1	13.8	14.4	14.9	10.5	11.3	11.0	11.7	12.1
	13.8	14.4	14.3	14.8	15.3	10.5	11.0	10.9	11.5	11.9	
	14.0	14.5	14.5	15.0	15.4	10.4	10.9	10.9	11.4	11.8	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.5 / - 0.6					+ 0.4 / - 0.5					
1.5H	+ 0.2 / - 0.2					+ 1.2 / - 2.0					
2.0H	+ 0.4 / - 1.3					+ 0.8 / - 1.3					

CIE Pub.117 Corrected 77.21 lm Total Lamp Luminous Flux.(8log(F/F0) = -8.9)

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-12-09

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: PW130107-VM/AL	TYPE:	WEIGHT:1.396(Kg)
DIM.: D260*40	SPEC.:	SERIAL No.:
MFR.:	SUR.:f260	PROTECTION ANGLE:

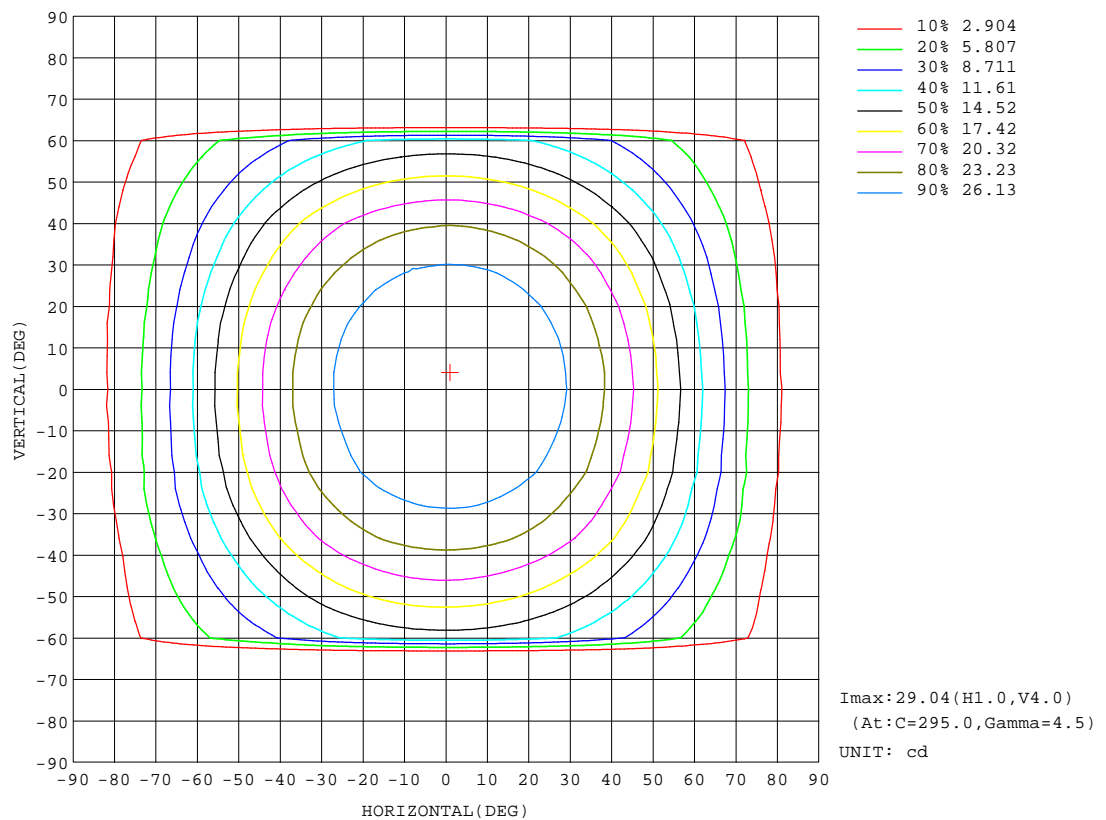
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	48	42	59	48	42	58	48	41	35
0.80	70	59	52	69	59	52	68	58	52	45
1.00	80	69	63	78	69	62	76	70	62	55
1.25	87	77	71	85	77	70	83	75	70	63
1.50	92	83	77	90	82	76	87	80	75	68
2.00	98	91	85	97	90	84	93	88	83	76
2.50	102	95	90	100	94	89	96	91	87	79
3.00	105	99	94	103	97	93	99	94	91	83
4.00	108	103	99	106	102	98	102	98	95	87
5.00	110	106	103	108	104	101	104	101	98	89
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:2019-12-09

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: PW130107-VM/AL	TYPE:	WEIGHT:1.396(Kg)
DIM.: D260*40	SPEC.:	SERIAL No.:
MFR.:	SUR.:f260	PROTECTION ANGLE:

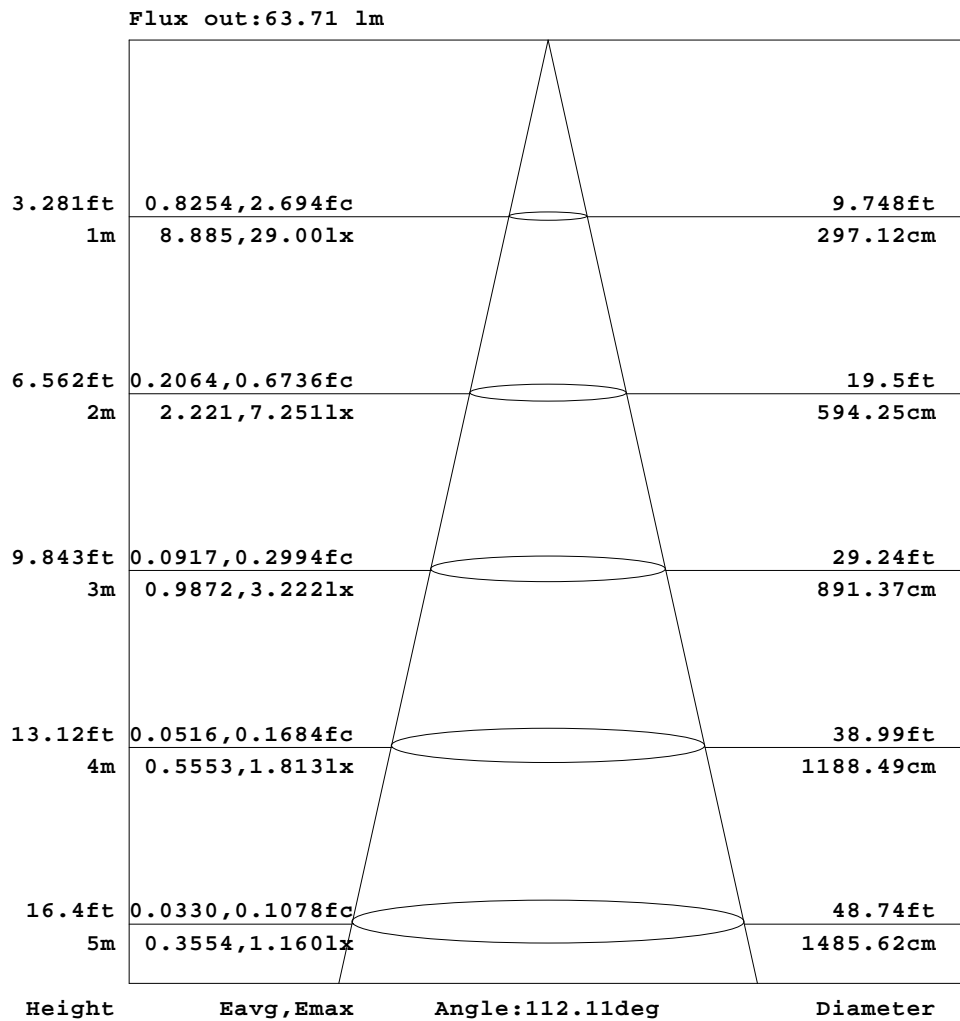


C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZENGQG  
Test Date:2019-12-09

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: PW130107-VM/AL	TYPE:	WEIGHT:1.396(Kg)
DIM.: D260*40	SPEC.:	SERIAL No.:
MFR.:	SUR.:f260	PROTECTION ANGLE:



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

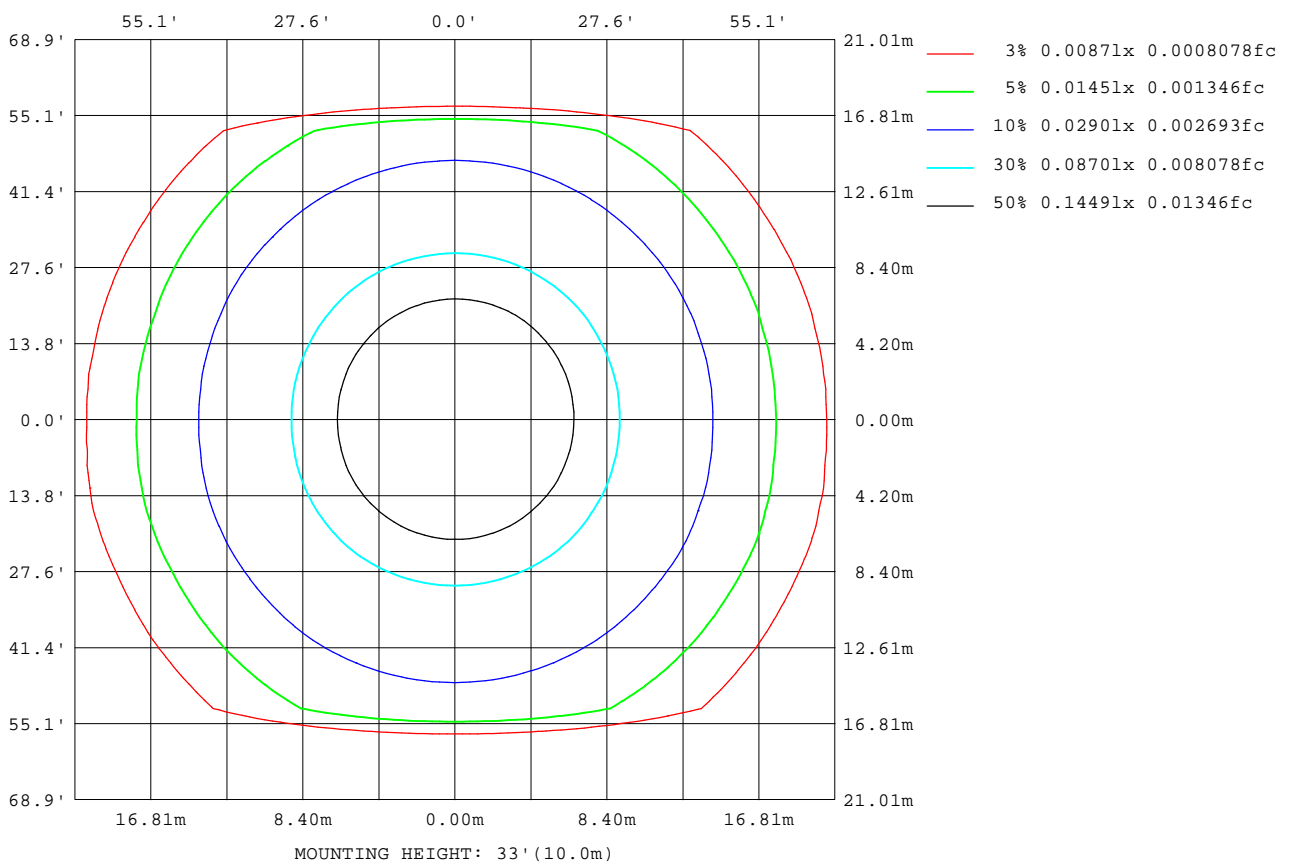
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: ZENGQ  
Test Date: 2019-12-09

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

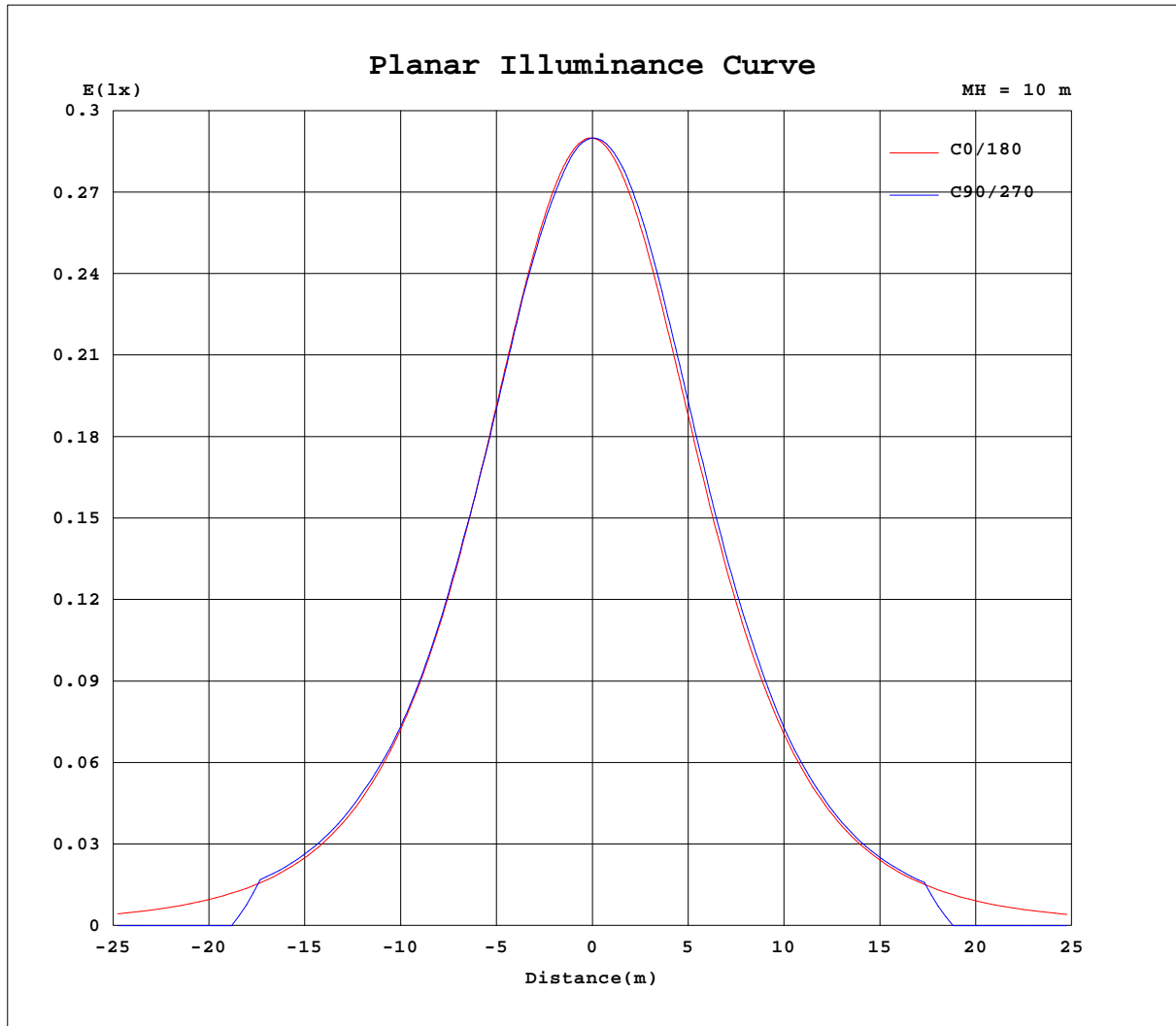
NAME: PW130107-VM/AL	TYPE:	WEIGHT:1.396(Kg)
DIM.: D260*40	SPEC.:	SERIAL No.:
MFR.:	SUR.:f260	PROTECTION ANGLE:



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
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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:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: ZENGQG  
Test Date: 2019-12-09

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: