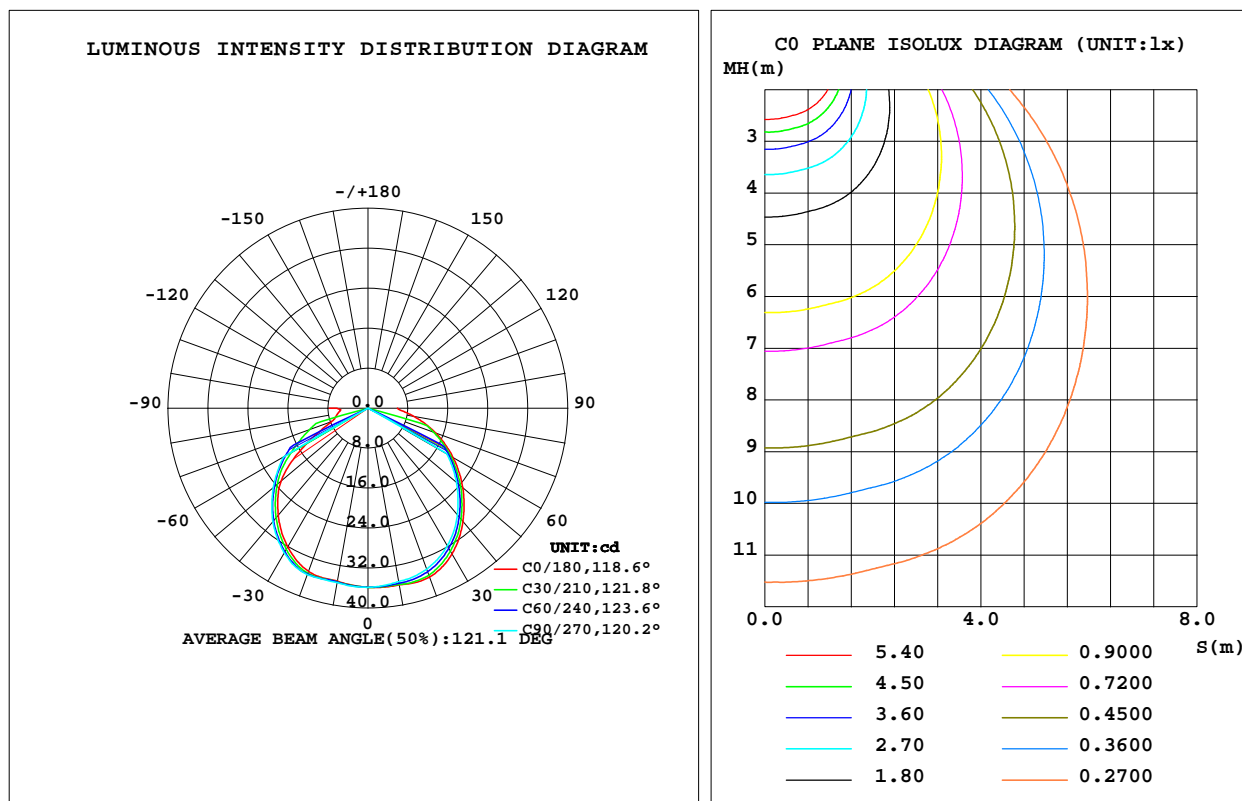


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: PT140919	TYPE:LED	WEIGHT:1.894(Kg)
DIM.: D300*580	SPEC.:	SERIAL No.:
MFR.:	SUR.:D300*250	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 7.43 lm/W
MODEL		I _{max} (cd)	36.17	S/MH(C0/180)	1.37	
NOMINAL POWER(W)	14	LOR(%)	100.0	S/MH(C90/270)	1.31	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	102.89	h UP,DN(C0-180)	0.0,49.4	
NOMINAL FLUX(lm)	102.887	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,50.6	
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	219.1	h down(%)	100.0	CIBSE SHR MAX	1.35	



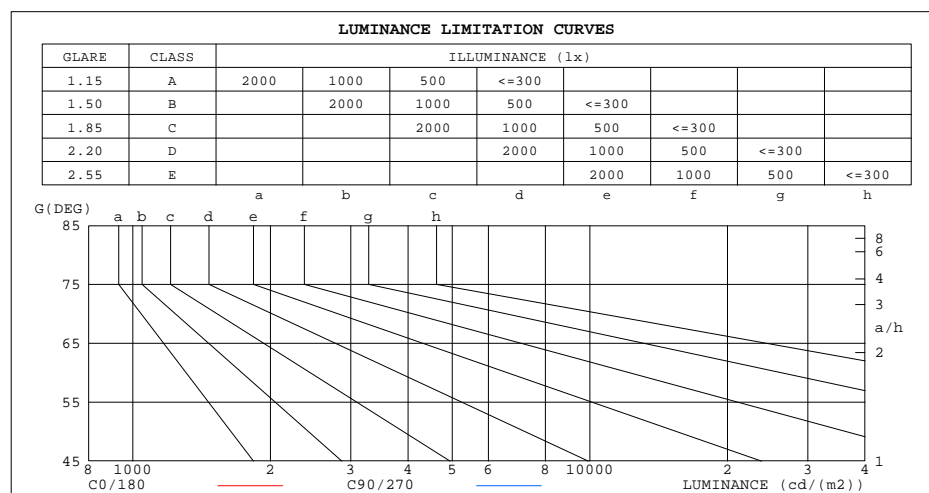
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-21

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	35.95	35.81	35.64	35.53	35.58	35.65	35.76	35.88	0- 5	0.8553	0.8553	0.83,0.83
10	35.92	35.72	35.23	35.13	35.15	35.33	35.46	35.72	5- 10	2.545	3.401	3.31,3.31
15	36.15	35.71	34.97	34.88	35.12	35.32	35.40	35.80	10- 15	4.203	7.603	7.39,7.39
20	35.97	35.17	34.30	34.38	34.78	35.29	35.48	35.80	15- 20	5.820	13.42	13,13
25	35.09	34.15	33.23	33.29	33.70	34.48	34.83	35.11	20- 25	7.284	20.71	20.1,20.1
30	33.67	32.67	31.82	31.76	32.10	32.98	33.50	33.73	25- 30	8.483	29.19	28.4,28.4
35	31.78	30.86	30.00	29.88	30.20	31.14	31.69	31.97	30- 35	9.383	38.57	37.5,37.5
40	29.59	28.75	27.86	27.63	27.94	28.98	29.66	29.97	35- 40	9.968	48.54	47.2,47.2
45	27.23	26.35	25.51	25.32	25.54	26.65	27.21	27.61	40- 45	10.22	58.76	57.1,57.1
50	24.79	23.94	23.15	22.82	22.70	24.13	24.77	25.24	45- 50	10.18	68.94	67,67
55	22.22	21.39	20.69	20.28	18.71	21.46	22.14	22.59	50- 55	9.832	78.77	76.6,76.6
60	19.64	18.87	18.22	17.79	14.16	18.82	19.51	19.97	55- 60	9.188	87.96	85.5,85.5
65	17.00	16.34	0	15.16	10.30	16.01	0	17.29	60- 65	6.691	94.65	92,92
70	14.35	0	0	0	7.655	0	0	0	65- 70	3.859	98.51	95.7,95.7
75	11.73	0	0	0	6.717	0	0	0	70- 75	2.302	100.8	98,98
80	9.255	0	0	0	6.139	0	0	0	75- 80	1.281	102.1	99.2,99.2
85	7.026	0	0	0	5.567	0	0	0	80- 85	0.6138	102.7	99.8,99.8
90	5.925	0	0	0	7.782	0	0	0	85- 90	0.1816	102.9	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	302	0
80	200	0
75	170	0
70	157	0
65	151	0
60	147	136
55	145	135
50	144	135
45	144	135

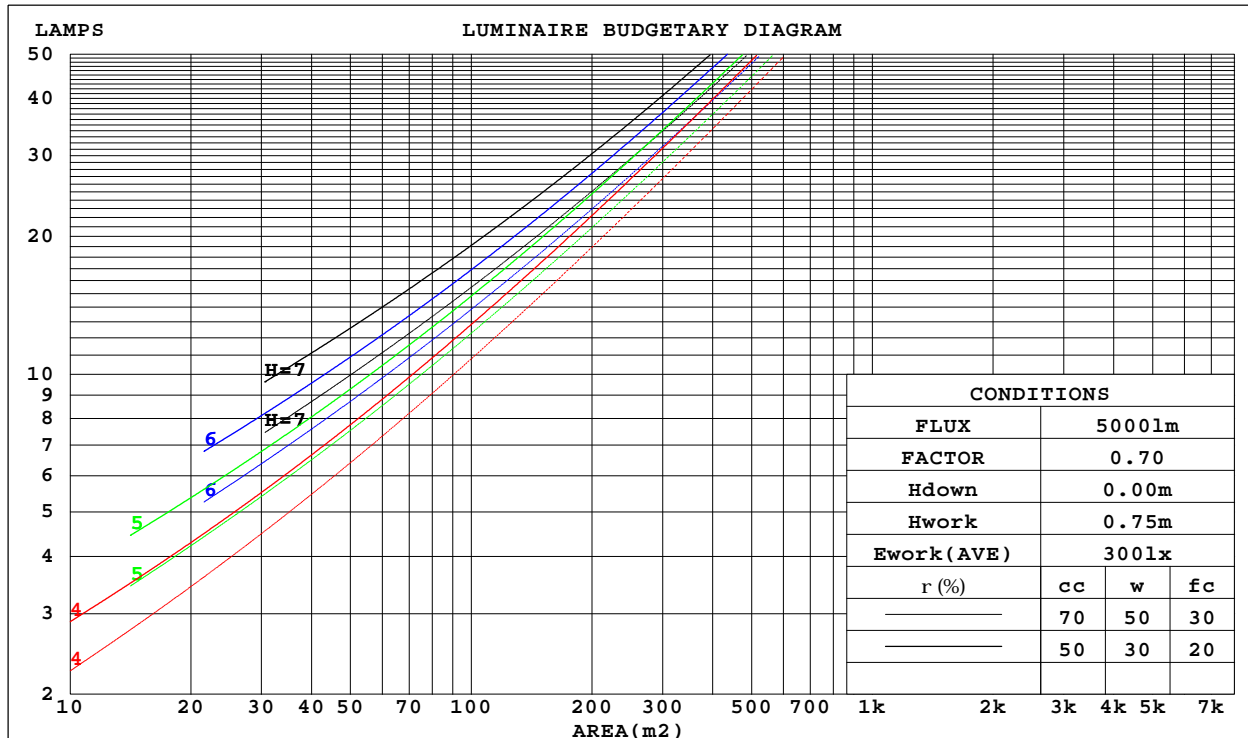
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-21

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: PT140919	TYPE:LED	WEIGHT:1.894(Kg)
DIM.: D300*580	SPEC.:	SERIAL No.:
MFR.:	SUR.:D300*250	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			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	.00
1.0	1.06	1.02	.98	1.03	.90	.97	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.93	.86	.81	.91	.85	.80	.87	.82	.78	.84	.80	.76	.81	.78	.75	.73
3.0	.82	.74	.68	.80	.73	.67	.77	.71	.66	.75	.69	.65	.72	.68	.64	.62
4.0	.73	.64	.58	.71	.63	.57	.69	.62	.56	.66	.61	.56	.64	.59	.55	.53
5.0	.65	.56	.50	.64	.56	.49	.62	.54	.49	.60	.53	.48	.58	.52	.48	.46
6.0	.58	.50	.43	.57	.49	.43	.56	.48	.43	.54	.47	.42	.52	.47	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.48	.42	.37	.35
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.31
9.0	.44	.36	.30	.43	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-21

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: PT140919	TYPE:LED	WEIGHT:1.894(Kg)
DIM.: D300*580	SPEC.:	SERIAL No.:
MFR.:	SUR.:D300*250	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	.278 .158 .050	.271 .155 .049	.258 .148 .047	.246 .142 .046	.235 .136 .044	
2.0	.270 .148 .045	.264 .145 .045	.252 .140 .044	.241 .135 .042	.232 .131 .041	
3.0	.254 .135 .041	.249 .133 .040	.239 .129 .039	.229 .126 .039	.221 .122 .038	
4.0	.238 .124 .036	.233 .122 .036	.224 .119 .036	.216 .116 .035	.208 .113 .034	
5.0	.222 .113 .033	.218 .112 .033	.210 .109 .032	.203 .107 .032	.196 .105 .031	
6.0	.208 .104 .030	.204 .103 .030	.197 .101 .029	.190 .099 .029	.184 .097 .029	
7.0	.194 .096 .027	.191 .095 .027	.185 .093 .027	.179 .092 .027	.173 .090 .026	
8.0	.182 .089 .025	.179 .088 .025	.174 .087 .025	.168 .085 .025	.163 .084 .024	
9.0	.171 .083 .023	.169 .082 .023	.164 .081 .023	.159 .080 .023	.154 .078 .023	
10.0	.162 .077 .022	.159 .077 .021	.154 .076 .021	.150 .075 .021	.146 .073 .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	.178 .156 .137	.152 .134 .118	.104 .092 .081	.060 .053 .047	.019 .017 .015	
2.0	.169 .132 .101	.145 .114 .087	.099 .079 .061	.057 .046 .036	.018 .015 .012	
3.0	.161 .114 .077	.138 .099 .066	.095 .068 .047	.055 .040 .027	.018 .013 .009	
4.0	.154 .101 .060	.132 .087 .052	.091 .061 .037	.053 .036 .022	.017 .012 .007	
5.0	.147 .090 .048	.126 .078 .042	.087 .055 .030	.050 .032 .018	.016 .010 .006	
6.0	.140 .082 .040	.121 .071 .035	.083 .050 .025	.048 .029 .015	.016 .010 .005	
7.0	.134 .075 .034	.115 .065 .029	.079 .046 .021	.046 .027 .012	.015 .009 .004	
8.0	.128 .069 .029	.110 .060 .025	.076 .042 .018	.044 .025 .011	.014 .008 .004	
9.0	.122 .064 .026	.105 .056 .022	.073 .039 .016	.042 .023 .009	.014 .008 .003	
10.0	.116 .060 .023	.100 .052 .020	.069 .037 .014	.041 .022 .008	.013 .007 .003	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-21

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: PT140919					TYPE:LED			WEIGHT:1.894(Kg)			
DIM.: D300*580					SPEC.:			SERIAL No.:			
MFR.:					SUR.:D300*250			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	6.8	8.2	7.0	8.4	8.6	5.6	7.0	5.8	7.2	7.4	
	3H	8.8	10.1	9.0	10.3	10.6	5.4	6.7	5.6	6.9	7.2
	4H	9.7	11.0	10.1	11.3	11.5	5.2	6.5	5.6	6.8	7.0
	6H	10.7	11.9	11.1	12.2	12.5	5.1	6.3	5.5	6.6	6.9
	8H	11.2	12.4	11.6	12.7	13.0	5.1	6.2	5.4	6.5	6.8
	12H	11.8	12.9	12.1	13.2	13.5	5.0	6.2	5.4	6.4	6.7
4H	2H	7.3	8.6	7.7	8.9	9.1	6.3	7.6	6.6	7.8	8.1
	3H	9.5	10.6	9.9	10.9	11.2	6.1	7.2	6.4	7.5	7.8
	4H	10.6	11.7	11.0	12.0	12.3	6.0	7.0	6.4	7.3	7.7
	6H	11.7	12.6	12.1	13.0	13.3	5.9	6.8	6.3	7.1	7.5
	8H	12.3	13.2	12.7	13.5	13.9	5.9	6.7	6.3	7.0	7.4
	12H	12.9	13.7	13.4	14.1	14.5	5.8	6.6	6.2	7.0	7.4
8H	4H	10.5	11.3	10.9	11.7	12.1	6.2	7.0	6.6	7.4	7.7
	6H	11.6	12.3	12.1	12.7	13.1	6.1	6.8	6.5	7.2	7.6
	8H	12.2	12.8	12.7	13.2	13.7	6.0	6.6	6.5	7.1	7.5
	12H	12.8	13.3	13.3	13.8	14.2	6.0	6.5	6.5	7.0	7.4
12H	4H	10.5	11.2	10.9	11.6	12.0	6.1	6.9	6.6	7.3	7.7
	6H	11.6	12.2	12.0	12.6	13.0	6.1	6.7	6.5	7.1	7.5
	8H	12.2	12.7	12.6	13.1	13.6	6.0	6.5	6.5	7.0	7.5
Variations with the observer position at spacings:											
S = 1.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.4					
1.5H	+ 0.4 / - 0.2					+ 1.4 / - 2.2					
2.0H	+ 0.5 / - 1.3					+ 0.9 / - 1.4					

CIE Pub.117 Corrected 102.9 lm Total Lamp Luminous Flux.(8log(F/F0) = -7.9)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-21

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: PT140919	TYPE:LED	WEIGHT:1.894(Kg)
DIM.: D300*580	SPEC.:	SERIAL No.:
MFR.:	SUR.:D300*250	PROTECTION ANGLE:

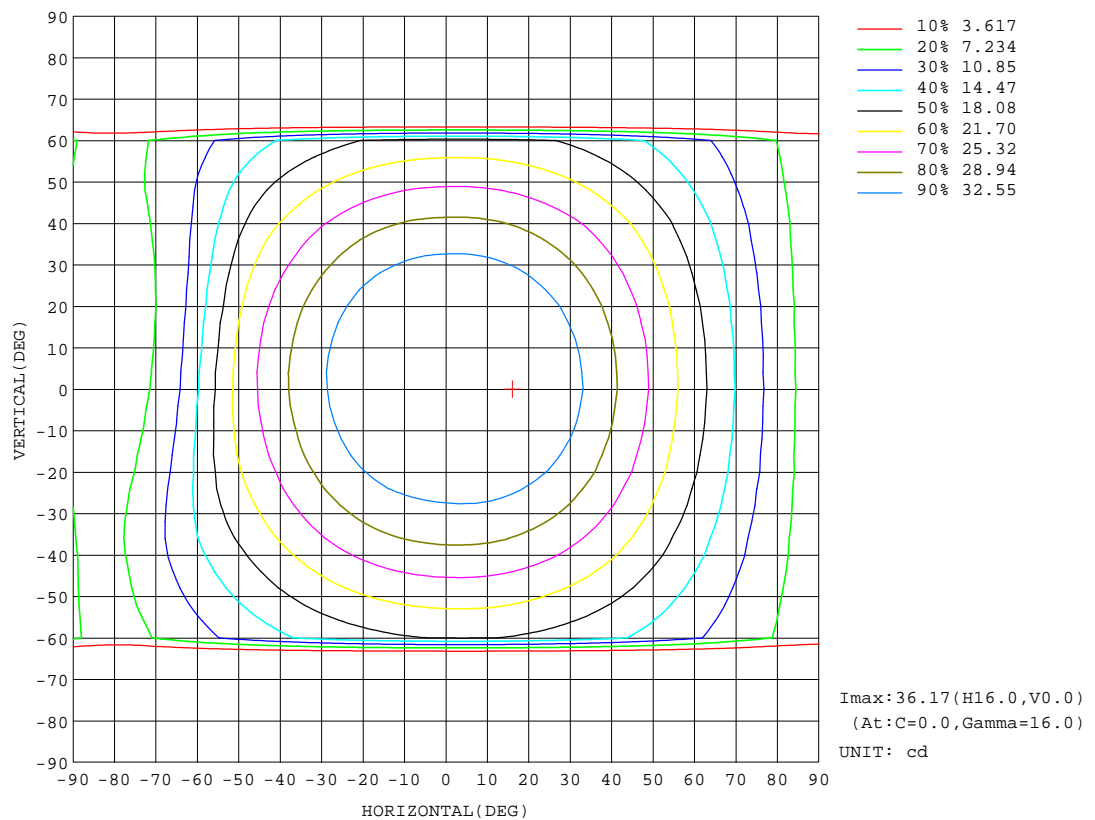
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	57	46	40	56	46	40	33
0.80	69	58	50	68	57	50	66	56	50	43
1.00	78	67	60	77	67	60	75	68	60	53
1.25	85	75	69	84	75	68	81	73	67	61
1.50	90	81	75	89	80	74	86	78	73	66
2.00	97	89	83	95	88	83	92	86	81	74
2.50	101	94	88	99	92	87	95	90	85	77
3.00	104	98	93	102	96	92	98	93	89	81
4.00	108	102	98	105	101	97	101	97	94	86
5.00	110	105	102	107	103	100	103	100	97	88
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:2019-11-21

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: PT140919	TYPE:LED	WEIGHT:1.894(Kg)
DIM.: D300*580	SPEC.:	SERIAL No.:
MFR.:	SUR.:D300*250	PROTECTION ANGLE:

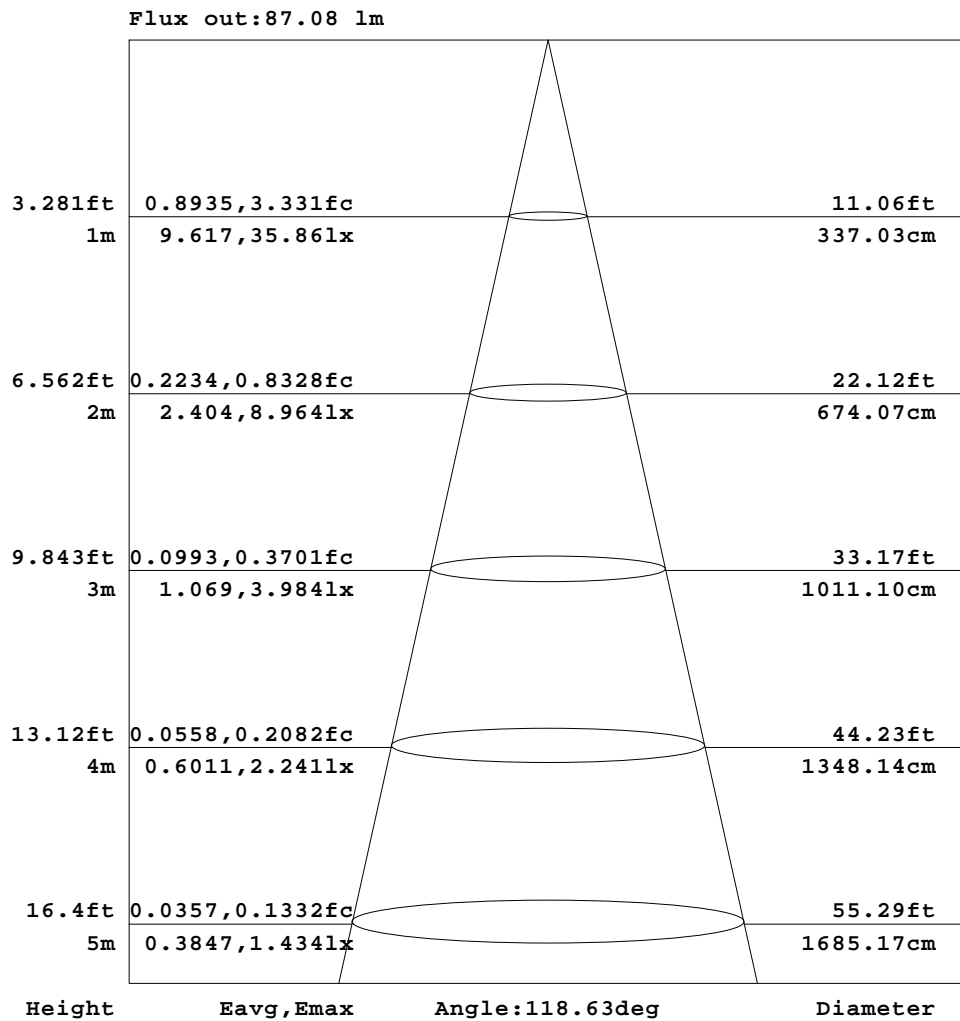


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-21

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: PT140919	TYPE:LED	WEIGHT:1.894(Kg)
DIM.: D300*580	SPEC.:	SERIAL No.:
MFR.:	SUR.:D300*250	PROTECTION ANGLE:



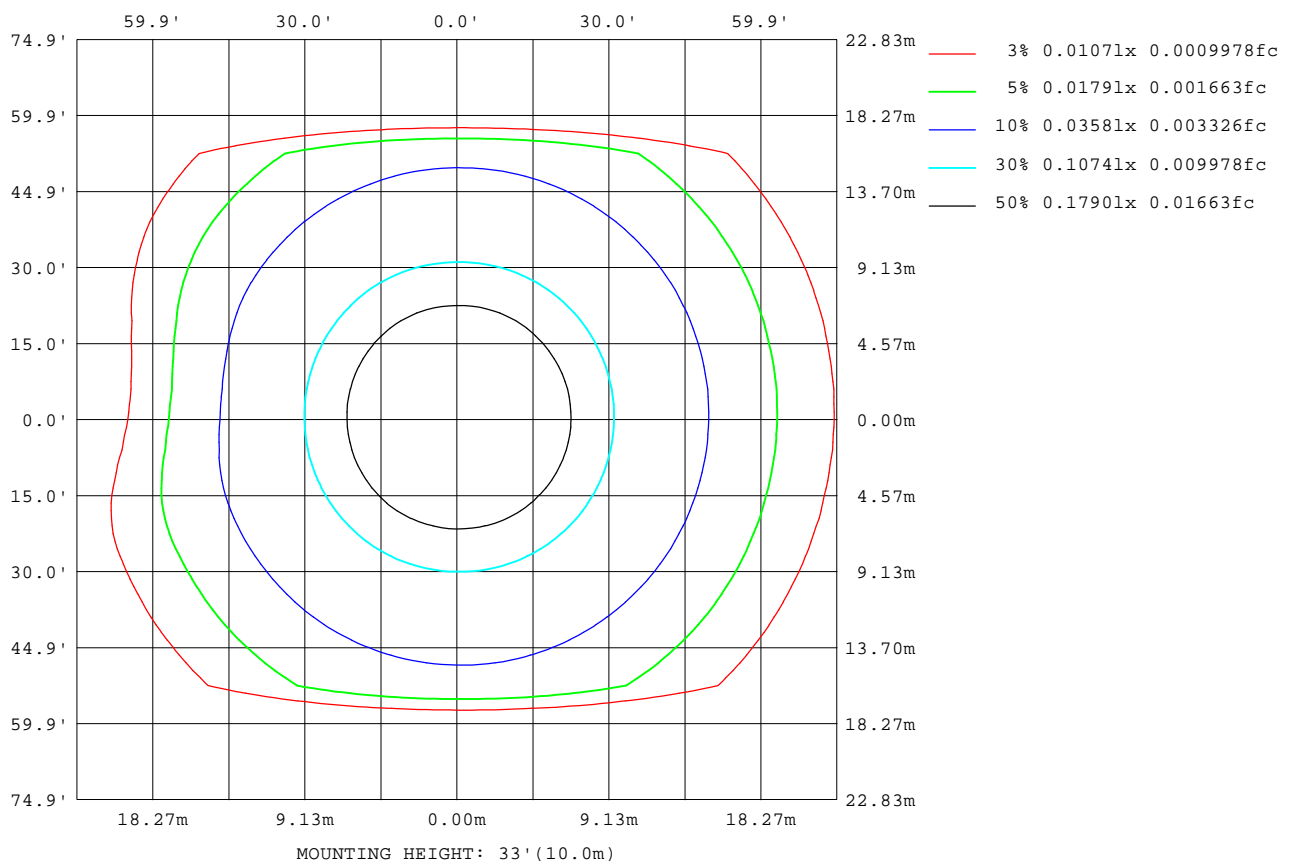
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZENGQG
Test Date:2019-11-21

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

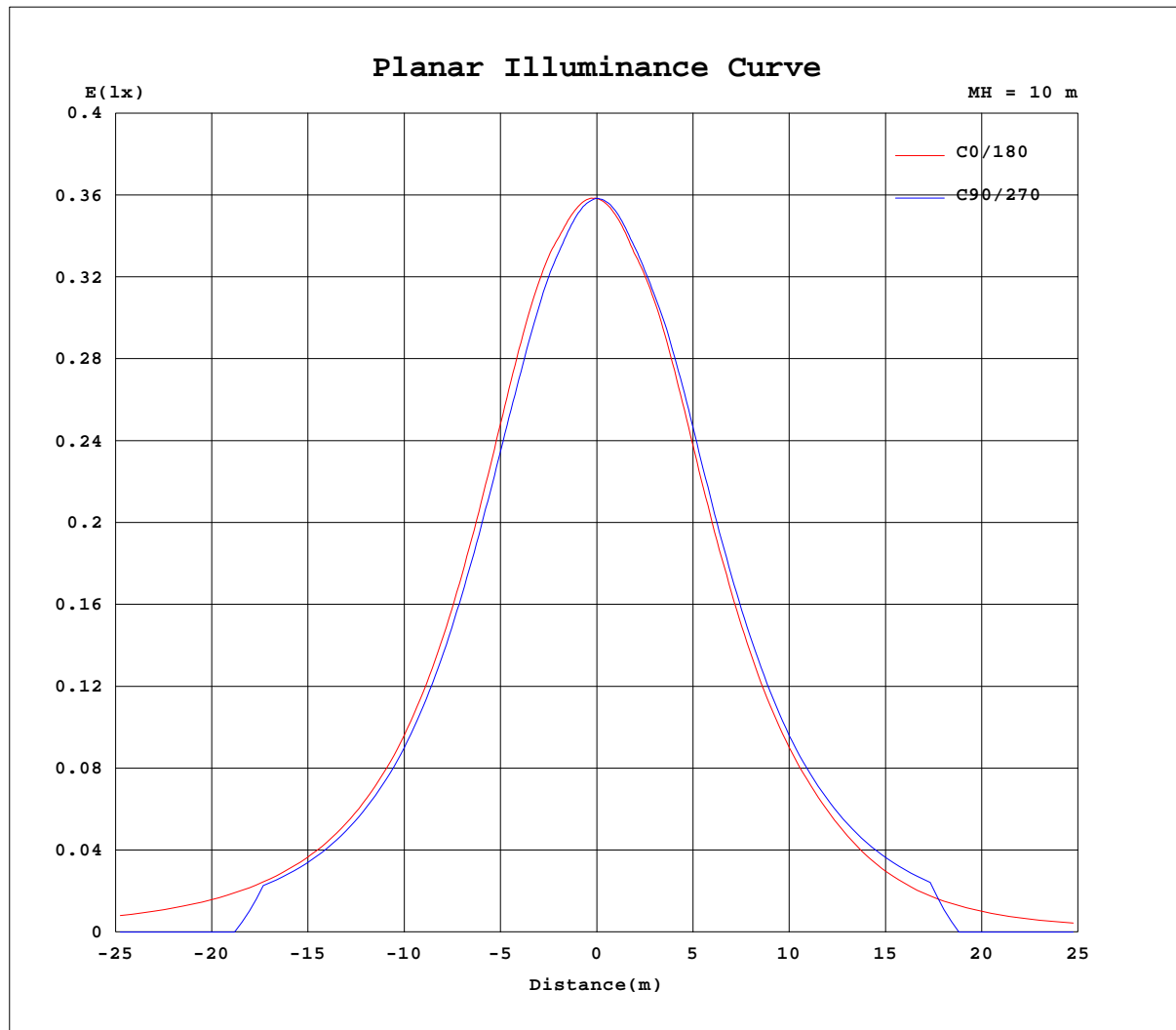
NAME: PT140919	TYPE:LED	WEIGHT:1.894(Kg)
DIM.: D300*580	SPEC.:	SERIAL No.:
MFR.:	SUR.:D300*250	PROTECTION ANGLE:



C Range: 0 - 360DEG
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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: 2019-11-21

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