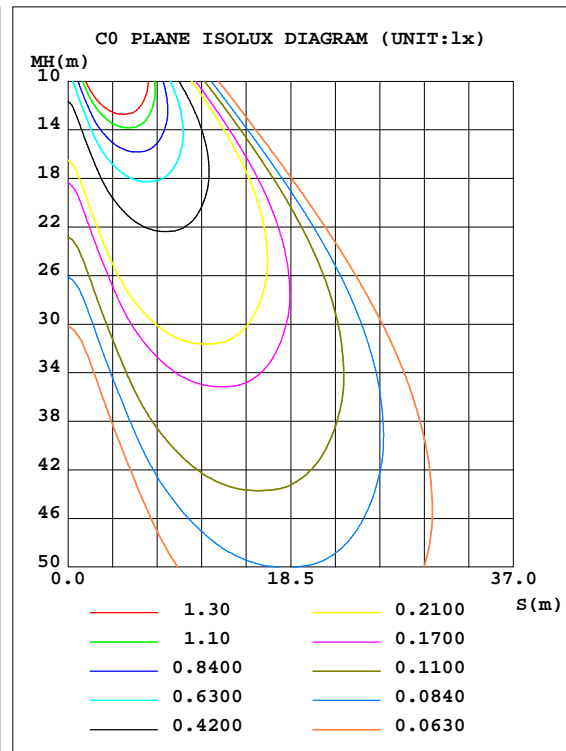
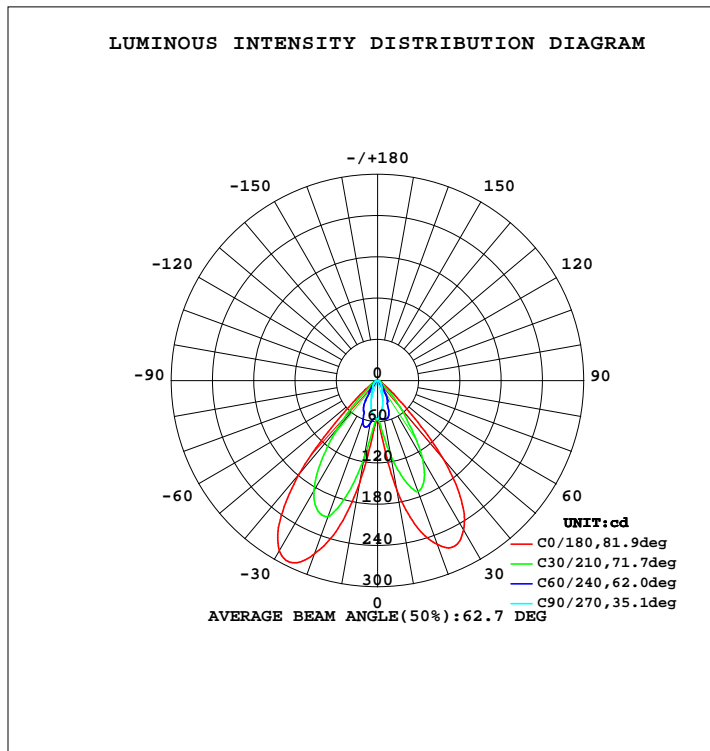


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: REL22	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 20141023-3
MFR.: Royal Pacific Ltd.	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		I _{max} (cd)	293.7	S/MH(C0/180)	1.59
NOMINAL POWER(W)	0.3	LOR(%)	50.0	S/MH(C90/270)	0.62
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	191.38	h UP, DN(C0-180)	0.0, 22.5
NOMINAL FLUX(lm)	191.38	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0, 27.5
LAMPS INSIDE	2	h up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	h down(%)	50.0	CIBSE SHR MAX	0.60



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 30DEG
 Operators:
 Test Date: 2014-10-23

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity: 65.0%
 Test Distance: 13.450m [K=1.0000]
 Remarks: EMERGE

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
5	87.29	63.33	48.72	57.76	76.82	60.85	52.80	67.40	0- 5	1.427	1.427	0.75,0.37
10	161.1	80.03	40.33	74.11	149.7	86.45	48.48	96.48	5- 10	5.553	6.980	3.65,1.82
15	219.9	97.70	30.56	93.23	222.3	123.4	37.46	133.0	10- 15	12.48	19.46	10.2,5.08
20	253.3	100.7	20.79	99.85	267.6	129.3	26.45	135.5	15- 20	20.45	39.91	20.9,10.4
25	265.7	78.79	16.49	80.10	292.5	115.4	20.48	119.9	20- 25	26.63	66.53	34.8,17.4
30	250.4	58.65	12.20	60.00	285.8	98.39	14.52	99.65	25- 30	29.86	96.39	50.4,25.2
35	212.5	40.57	10.53	42.98	247.2	68.47	12.46	69.36	30- 35	28.92	125.3	65.5,32.7
40	148.5	19.03	8.863	20.59	178.0	30.48	10.41	33.89	35- 40	23.53	148.8	77.8,38.9
45	70.93	13.69	7.707	14.91	87.78	21.11	9.171	22.65	40- 45	15.37	164.2	85.8,42.9
50	31.07	8.051	6.551	8.409	37.45	11.09	7.934	11.47	45- 50	8.551	172.8	90.3,45.1
55	14.53	6.366	5.239	6.932	17.87	8.910	6.743	9.140	50- 55	5.147	177.9	93,46.5
60	8.247	4.844	3.927	5.483	9.476	7.072	5.552	7.102	55- 60	3.510	181.4	94.8,47.4
65	6.118	4.123	3.048	4.447	6.419	6.022	4.522	6.024	60- 65	2.769	184.2	96.2,48.1
70	4.941	3.397	2.170	3.471	5.177	5.025	3.493	5.053	65- 70	2.307	186.5	97.4,48.7
75	4.100	2.704	1.464	2.584	4.310	4.168	2.589	4.159	70- 75	1.911	188.4	98.4,49.2
80	3.434	2.036	0.7571	2.007	3.744	3.414	1.686	3.316	75- 80	1.566	190.0	99.3,49.6
85	2.746	0.6747	0	0.6988	2.834	1.223	0	1.169	80- 85	1.108	191.1	99.8,49.9
90	0.0101	0	0	0	0.0077	0	0	0	85- 90	0.3049	191.4	100,50
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			

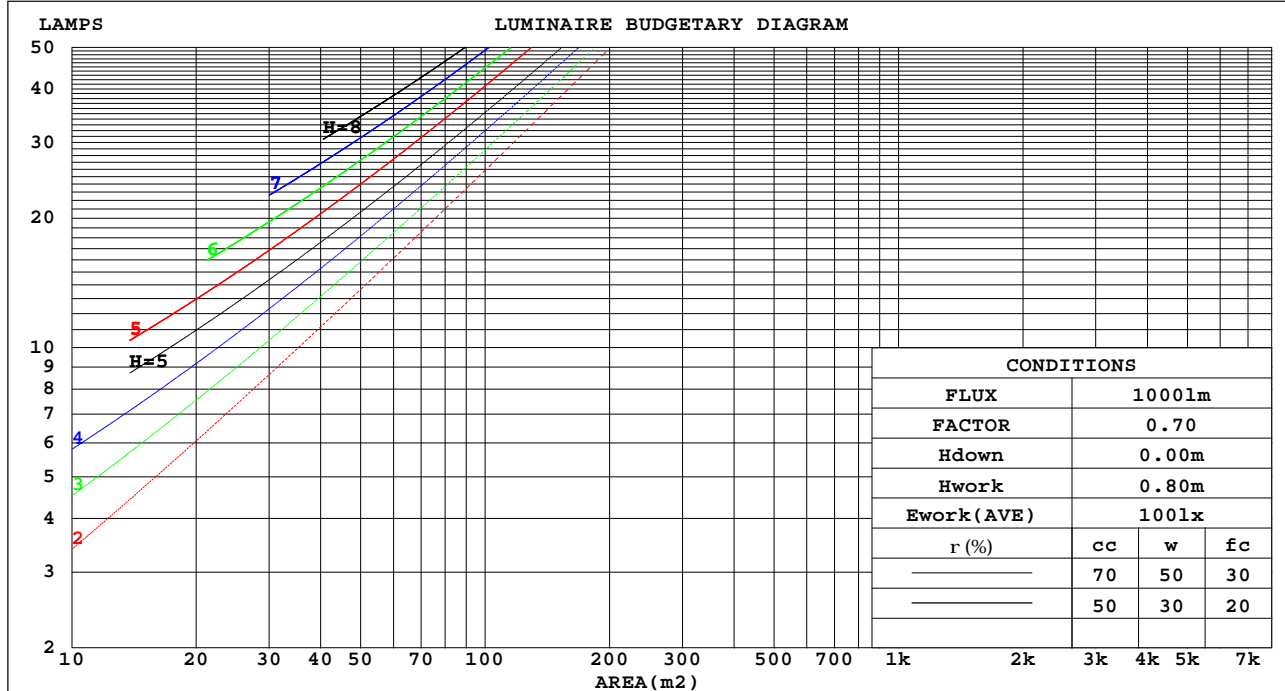
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:
 Test Date:2014-10-23

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.450m [K=1.0000]
 Remarks: EMERGE

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20141023-3
MFR.:	SUR.:	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						Coefficients of Utilization(CU)									
0.0	.60	.60	.60	.58	.58	.58	.56	.56	.56	.53	.53	.53	.51	.51	.51	.50
1.0	.54	.53	.51	.53	.52	.50	.51	.50	.49	.49	.48	.47	.47	.47	.46	.45
2.0	.49	.47	.45	.48	.46	.44	.47	.45	.43	.45	.44	.42	.44	.42	.41	.40
3.0	.45	.42	.39	.44	.41	.39	.43	.40	.38	.42	.40	.38	.40	.39	.37	.36
4.0	.41	.38	.35	.41	.37	.35	.39	.37	.35	.38	.36	.34	.37	.35	.34	.33
5.0	.38	.34	.32	.37	.34	.31	.36	.33	.31	.35	.33	.31	.35	.32	.31	.30
6.0	.35	.31	.29	.34	.31	.28	.34	.31	.28	.33	.30	.28	.32	.30	.28	.27
7.0	.32	.29	.26	.32	.28	.26	.31	.28	.26	.30	.28	.26	.30	.27	.25	.25
8.0	.30	.26	.24	.29	.26	.24	.29	.26	.24	.28	.25	.23	.28	.25	.23	.23
9.0	.28	.24	.22	.27	.24	.22	.27	.24	.22	.26	.24	.22	.26	.23	.21	.21
10.0	.26	.22	.20	.25	.22	.20	.25	.22	.20	.25	.22	.20	.24	.22	.20	.19



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:
 Test Date:2014-10-23

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.450m [K=1.0000]
 Remarks: EMERGE

WEC AND CCEC

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20141023-3
MFR.:	SUR.:	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	.112	.063	.020	.108	.062	.020	.102	.058	.019	.096	.055	.018	.090	.052	.017	
2.0	.107	.058	.018	.104	.057	.018	.098	.055	.017	.093	.052	.016	.088	.050	.016	
3.0	.101	.054	.016	.098	.053	.016	.094	.051	.015	.089	.049	.015	.085	.047	.015	
4.0	.095	.050	.015	.093	.049	.014	.089	.047	.014	.085	.046	.014	.082	.044	.014	
5.0	.090	.046	.013	.088	.045	.013	.085	.044	.013	.081	.043	.013	.078	.042	.013	
6.0	.086	.043	.012	.084	.042	.012	.081	.041	.012	.078	.040	.012	.075	.039	.012	
7.0	.081	.040	.011	.080	.040	.011	.077	.039	.011	.074	.038	.011	.072	.037	.011	
8.0	.077	.038	.011	.076	.037	.011	.073	.037	.010	.071	.036	.010	.069	.035	.010	
9.0	.074	.036	.010	.072	.035	.010	.070	.035	.010	.068	.034	.010	.066	.033	.010	
10.0	.070	.034	.009	.069	.033	.009	.067	.033	.009	.065	.032	.009	.063	.032	.009	

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	.095	.095	.095	.081	.081	.081	.056	.056	.056	.032	.032	.032	.010	.010	.010	
1.0	.087	.078	.071	.075	.067	.061	.051	.046	.042	.029	.027	.024	.009	.009	.008	
2.0	.081	.066	.054	.069	.057	.046	.047	.039	.032	.027	.023	.019	.009	.007	.006	
3.0	.076	.057	.042	.065	.049	.036	.045	.034	.026	.026	.020	.015	.008	.006	.005	
4.0	.071	.050	.033	.061	.043	.029	.042	.030	.020	.024	.018	.012	.008	.006	.004	
5.0	.067	.044	.027	.058	.038	.024	.040	.027	.017	.023	.016	.010	.007	.005	.003	
6.0	.064	.040	.023	.055	.035	.020	.038	.024	.014	.022	.014	.008	.007	.005	.003	
7.0	.061	.036	.019	.052	.031	.017	.036	.022	.012	.021	.013	.007	.007	.004	.002	
8.0	.058	.033	.016	.050	.029	.014	.035	.020	.010	.020	.012	.006	.007	.004	.002	
9.0	.056	.031	.014	.048	.027	.012	.033	.019	.009	.019	.011	.005	.006	.004	.002	
10.0	.053	.029	.012	.046	.025	.011	.032	.018	.008	.019	.010	.005	.006	.003	.002	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2014-10-23

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:13.450m [K=1.0000]
Remarks: EMERGE

UGR(Unified Glare Rating) Table

NAME:					TYPE:					WEIGHT:					
SPEC.:					DIM.:					SERIAL No.:20141023-3					
MFR.:					SUR.:					PROTECTION ANGLE:					
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	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	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	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise									
x = 2H y = 2H	23.1	24.3	23.3	24.5	24.6	12.4	13.6	12.6	13.8	13.9	23.1	24.3	23.3	24.5	24.6
3H	23.1	24.2	23.4	24.4	24.6	13.3	14.4	13.6	14.6	14.8	3H	23.1	24.2	23.4	24.4
4H	23.2	24.2	23.5	24.4	24.7	13.7	14.7	14.0	14.9	15.2	4H	23.2	24.2	23.5	24.4
6H	23.3	24.3	23.7	24.6	24.8	13.9	14.8	14.2	15.1	15.3	6H	23.3	24.3	23.7	24.6
8H	23.5	24.4	23.8	24.6	24.9	13.9	14.8	14.2	15.1	15.3	8H	23.5	24.4	23.8	24.6
12H	23.6	24.5	23.9	24.8	25.1	13.9	14.7	14.2	15.0	15.3	12H	23.6	24.5	23.9	24.8
4H 2H	22.9	23.9	23.1	24.1	24.3	13.2	14.2	13.5	14.4	14.7	4H 2H	22.9	23.9	23.1	24.1
3H	23.0	23.8	23.3	24.1	24.4	14.3	15.2	14.7	15.5	15.8	3H	23.0	23.8	23.3	24.1
4H	23.1	23.9	23.5	24.2	24.5	14.8	15.6	15.1	15.9	16.2	4H	23.1	23.9	23.5	24.2
6H	23.4	24.1	23.8	24.5	24.8	15.1	15.8	15.5	16.1	16.5	6H	23.4	24.1	23.8	24.5
8H	23.6	24.3	24.0	24.6	25.0	15.1	15.8	15.5	16.1	16.5	8H	23.6	24.3	24.0	24.6
12H	23.9	24.5	24.3	24.9	25.3	15.1	15.7	15.5	16.0	16.4	12H	23.9	24.5	24.3	24.9
8H 4H	23.1	23.7	23.5	24.1	24.4	15.4	16.1	15.8	16.4	16.8	8H 4H	23.1	23.7	23.5	24.1
6H	23.5	24.0	23.9	24.4	24.8	15.9	16.4	16.3	16.8	17.3	6H	23.5	24.0	23.9	24.4
8H	23.8	24.2	24.2	24.7	25.1	16.0	16.5	16.4	16.9	17.3	8H	23.8	24.2	24.2	24.7
12H	24.2	24.6	24.7	25.1	25.5	16.0	16.4	16.4	16.8	17.3	12H	24.2	24.6	24.7	25.1
12H 4H	23.0	23.6	23.4	24.0	24.4	15.6	16.2	16.0	16.6	17.0	12H 4H	23.0	23.6	23.4	24.0
6H	23.4	23.9	23.9	24.3	24.8	16.2	16.7	16.7	17.1	17.6	6H	23.4	23.9	23.9	24.3
8H	23.8	24.2	24.3	24.6	25.1	16.4	16.8	16.8	17.2	17.7	8H	23.8	24.2	24.3	24.6
Variations with the observer position at spacings:															
S = 1.0H	+ 3.8 / - 3.4					+ 0.4 / - 0.4									
1.5H	+ 5.7 / - 4.2					+ 0.6 / - 0.3									
2.0H	+ 5.7 / - 2.1					+ 0.2 / - 0.4									

CIE Pub.117 Corrected 382.8 lm Total Lamp Luminous Flux.(8log(F/F0) = -3.3)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:
 Test Date:2014-10-23

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.450m [K=1.0000]
 Remarks: EMERGE

UTILIZATION FACTORS TABLE

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20141023-3
MFR.:	SUR.:	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	39	35	32	39	35	32	38	35	32	30
0.80	43	39	37	43	39	37	42	39	37	34
1.00	46	43	40	46	42	40	45	42	40	37
1.25	49	45	43	48	45	43	47	44	42	40
1.50	50	47	45	50	47	45	48	46	44	42
2.00	52	50	48	52	49	47	50	48	46	44
2.50	53	51	49	53	50	49	51	49	48	44
3.00	55	52	51	54	52	50	52	50	49	45
4.00	56	54	52	55	53	52	53	52	50	47
5.00	57	55	54	55	54	53	53	52	51	47
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:30DEG
 Operators:
 Test Date:2014-10-23

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.450m [K=1.0000]
 Remarks: EMERGE

ISOCANDELA DIAGRAM

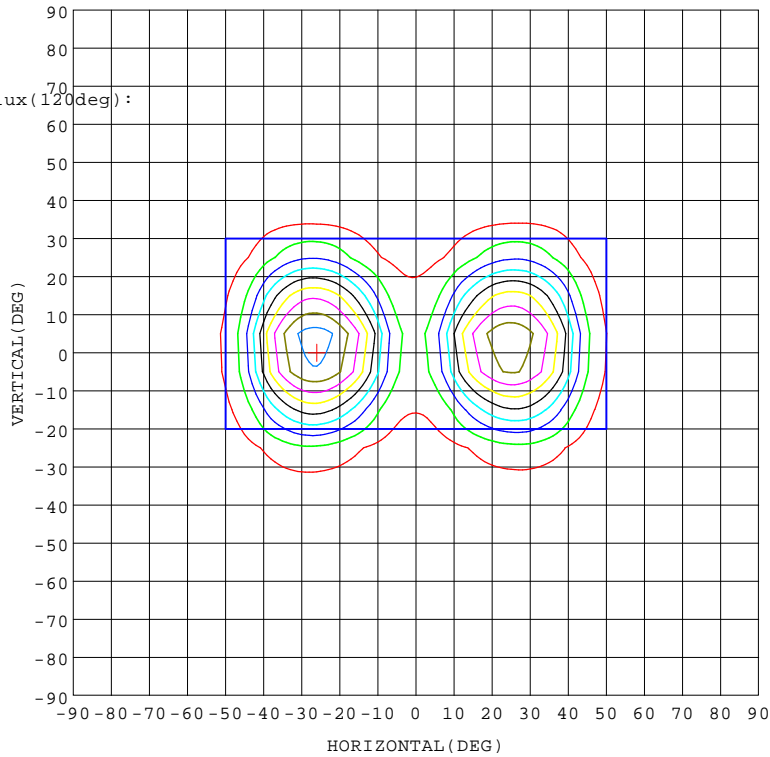
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20141023-3
MFR.:	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

164.21 lm
 %lum = 85.8%
 %lamp = 42.9%

Conical surface Flux(120deg):

181.42 lm
 %lum = 94.8%
 %lamp = 47.4%



- 10% 29.37
- 20% 58.74
- 30% 88.11
- 40% 117.5
- 50% 146.8
- 60% 176.2
- 70% 205.6
- 80% 234.9
- 90% 264.3

MAX = 293.68
 MIN = 10.502
 AVG = 107.47
 AVG/MAX = 0.37
 MIN/MAX = 0.04

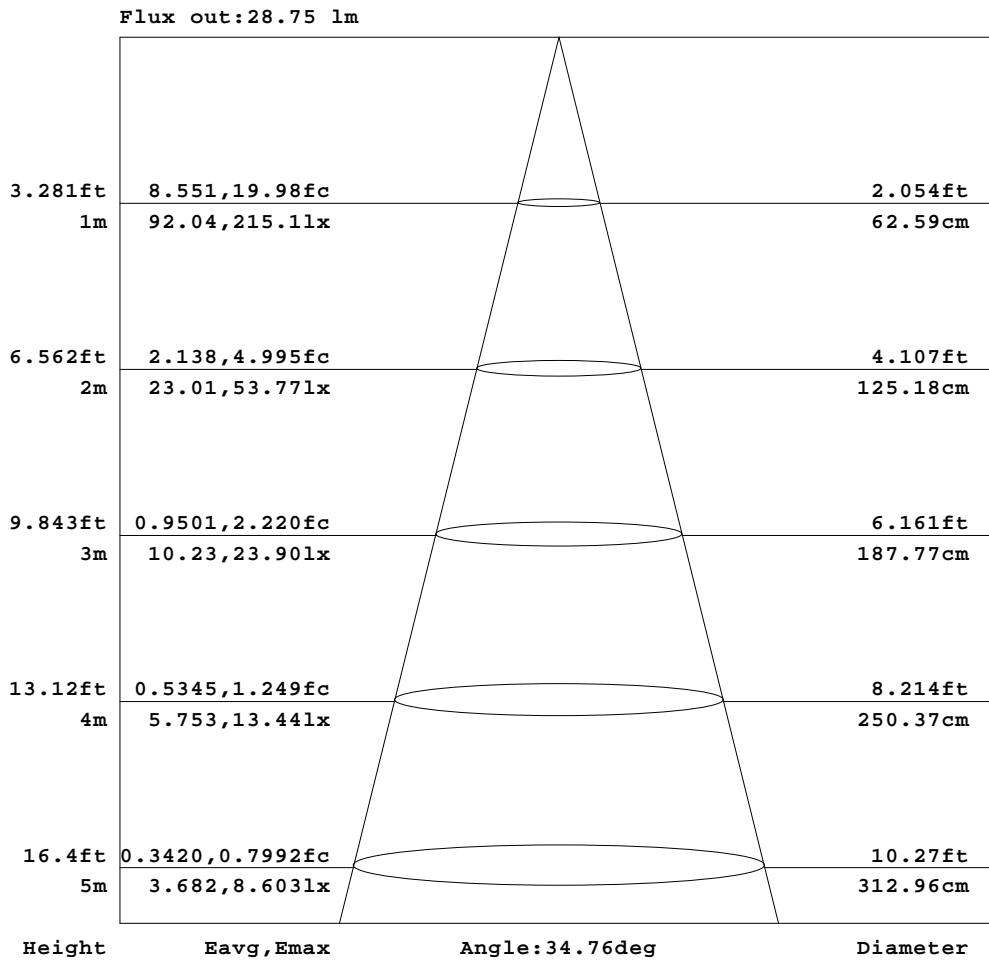
Imax:293.7(H=-26.0,V0.0)
 (At:C=180.0,Gamma=26.0)
 UNIT: cd

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:
 Test Date:2014-10-23

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.450m [K=1.0000]
 Remarks: EMERGE

AAI Figure

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20141023-3
MFR.:	SUR.:	PROTECTION ANGLE:



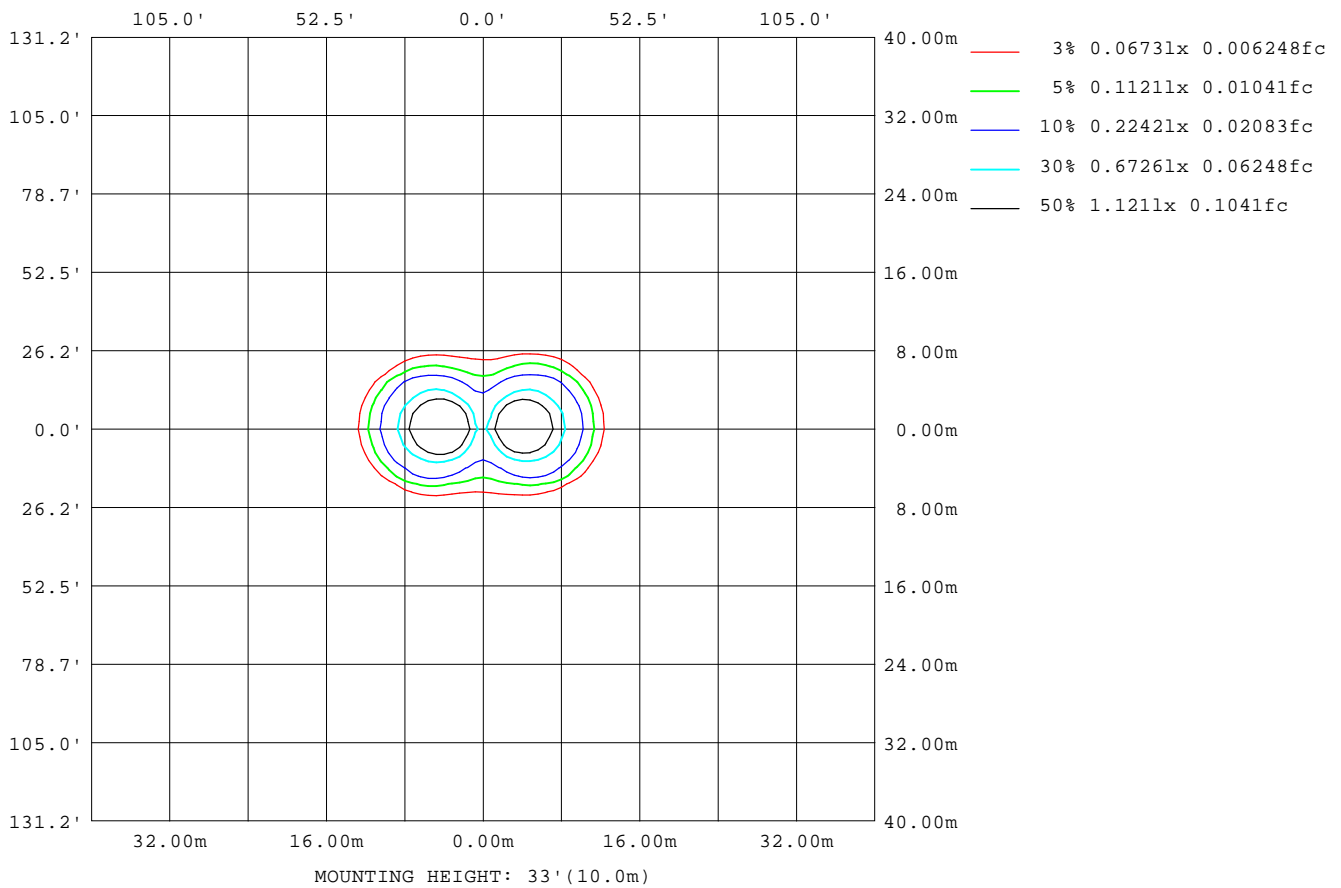
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:
 Test Date:2014-10-23

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.450m [K=1.0000]
 Remarks: EMERGE

ISOLUX DIAGRAM

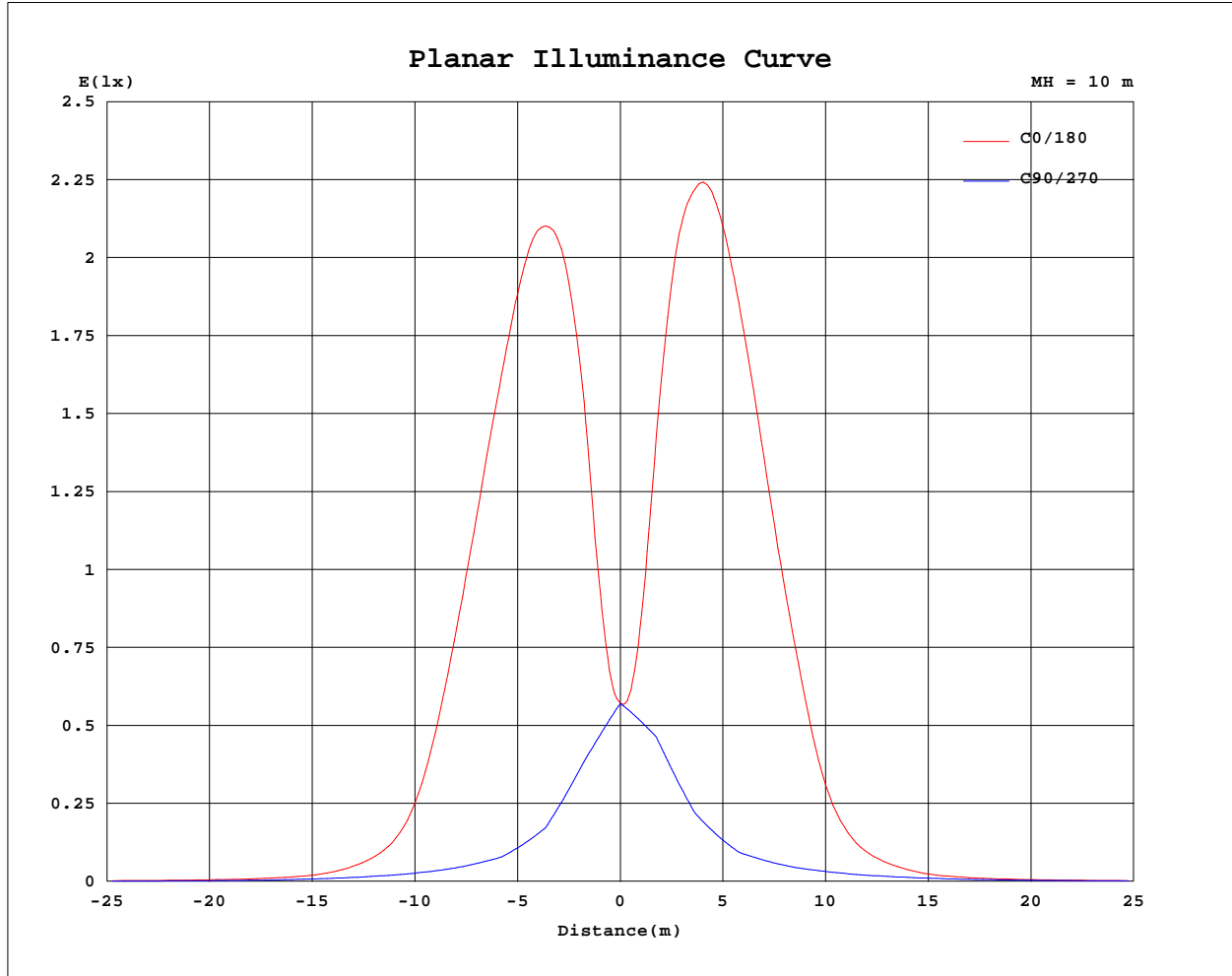
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20141023-3
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:
 Test Date:2014-10-23

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.450m [K=1.0000]
 Remarks: EMERGE

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 30DEG
Operators:
Test Date: 2014-10-23

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity: 65.0%
Test Distance: 13.450m [K=1.0000]
Remarks: EMERGE

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20141023-3
MFR.:	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C (DEG) \ g (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
5	87.3	85.6	83.5	81.1	78.4	75.5	72.4	69.2	66.2	63.3	60.4	57.8	55.6	53.5	52.0	50.7	49.8	49.2	48.7
10	161	155	147	139	130	120	110	99.7	89.7	80.0	71.6	63.8	56.9	51.6	47.4	44.3	42.1	40.8	40.3
15	220	211	200	189	177	163	149	133	115	97.7	81.6	67.8	56.7	47.9	40.8	36.0	32.8	31.1	30.6
20	253	242	230	217	204	189	172	147	123	101	80.3	62.6	48.3	37.9	30.7	25.6	22.4	20.9	20.8
25	266	253	239	226	212	190	160	132	105	78.8	55.2	42.1	34.5	28.3	23.7	20.4	17.9	16.6	16.5
30	250	236	223	211	191	161	130	100	73.1	58.6	45.6	34.4	26.1	20.5	16.8	14.5	13.2	12.4	12.2
35	213	196	183	171	143	116	86.8	69.0	54.5	40.6	28.1	18.1	15.3	13.7	12.5	11.7	11.1	10.7	10.5
40	149	133	121	107	87.5	64.0	53.4	42.6	29.5	19.0	16.3	13.9	12.0	10.6	9.76	9.35	9.07	8.90	8.86
45	70.9	63.4	58.8	51.7	40.8	33.5	27.7	18.1	15.9	13.7	11.4	9.32	8.35	8.00	7.81	7.76	7.76	7.73	7.71
50	31.1	28.8	27.1	23.5	20.2	17.2	12.8	11.9	10.2	8.05	7.61	7.21	6.81	6.54	6.38	6.38	6.51	6.56	6.55
55	14.5	13.6	12.9	11.4	10.6	9.20	8.62	7.49	6.87	6.37	5.92	5.46	5.31	5.28	5.23	5.21	5.27	5.28	5.24
60	8.25	8.01	7.74	7.40	6.91	6.65	6.09	5.76	5.28	4.84	4.73	4.63	4.50	4.38	4.26	4.15	4.07	4.00	3.93
65	6.12	5.90	5.76	5.52	5.34	5.21	4.90	4.57	4.33	4.12	3.97	3.84	3.69	3.50	3.35	3.25	3.15	3.09	3.05
70	4.94	4.84	4.71	4.58	4.44	4.16	4.03	3.85	3.62	3.40	3.18	2.95	2.77	2.58	2.45	2.36	2.25	2.20	2.17
75	4.10	4.02	3.90	3.82	3.64	3.53	3.38	3.15	2.91	2.70	2.43	2.16	1.98	1.84	1.70	1.60	1.51	1.48	1.46
80	3.43	3.32	3.27	3.16	3.04	2.80	2.60	2.43	2.24	2.04	1.83	1.57	1.36	1.18	0.99	0.85	0.78	0.76	0.76
85	2.75	2.64	2.59	2.45	2.31	2.18	1.98	1.40	0.99	0.67	0.47	0.30	0.18	0.11	0.06	0.03	0.01	0.00	0.00
90	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2014-10-23
g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:13.450m [K=1.0000]
Remarks: EMERGE

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20141023-3
MFR.:	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) g (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
5	48.7	48.8	49.2	49.9	50.8	52.2	53.7	55.6	57.8	59.9	62.3	64.9	67.4	69.7	71.9	73.8	75.5	76.8	76.0
10	40.4	41.2	42.7	45.0	48.3	52.8	59.0	66.2	74.1	83.0	92.3	102	111	121	129	137	144	150	147
15	30.9	32.3	34.8	39.1	45.7	54.3	65.0	77.9	93.2	111	128	145	161	176	190	202	213	222	217
20	21.3	22.8	25.6	30.4	37.4	47.4	61.1	78.5	99.8	124	150	177	196	213	229	243	256	268	262
25	16.9	18.0	20.2	23.6	28.4	34.5	42.2	55.5	80.1	108	139	171	204	230	247	262	278	292	284
30	12.3	12.8	14.1	16.4	20.2	25.8	34.5	45.9	60.0	76.2	107	142	177	213	236	251	268	286	277
35	10.5	10.8	11.3	12.1	13.3	15.0	18.2	29.0	43.0	58.9	74.8	94.8	128	161	194	210	227	247	237
40	8.88	8.87	9.06	9.53	10.4	12.0	14.3	17.2	20.6	32.5	46.9	58.5	70.2	100	126	144	158	178	169
45	7.69	7.65	7.68	7.73	7.99	8.41	9.38	11.8	14.9	17.9	20.8	31.0	38.1	47.1	59.9	68.8	76.7	87.8	83.1
50	6.52	6.52	6.50	6.44	6.67	7.01	7.39	7.90	8.41	11.1	13.1	14.0	19.3	23.6	27.7	31.9	34.3	37.5	36.2
55	5.22	5.24	5.28	5.31	5.48	5.69	6.00	6.50	6.93	7.28	7.85	9.23	9.93	12.1	13.0	15.1	16.2	17.9	17.2
60	3.91	3.96	4.10	4.33	4.56	4.76	5.02	5.30	5.48	5.80	6.10	6.33	7.00	7.37	8.04	8.53	8.99	9.48	9.46
65	3.04	3.07	3.18	3.37	3.58	3.81	4.06	4.29	4.45	4.67	4.95	5.22	5.42	5.66	5.97	6.13	6.34	6.42	6.45
70	2.18	2.21	2.28	2.38	2.55	2.83	3.10	3.29	3.47	3.66	4.01	4.32	4.65	4.77	4.88	4.97	5.10	5.18	5.30
75	1.49	1.52	1.60	1.72	1.87	2.08	2.27	2.38	2.58	2.83	3.15	3.46	3.72	4.16	4.19	4.25	4.23	4.31	4.42
80	0.79	0.84	0.96	1.18	1.36	1.54	1.70	1.86	2.01	2.21	2.42	2.63	2.87	3.10	3.28	3.40	3.59	3.74	3.88
85	0.00	0.01	0.03	0.07	0.13	0.22	0.33	0.49	0.70	1.01	1.44	2.03	2.25	2.39	2.53	2.54	2.67	2.83	3.01
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:
 Test Date:2014-10-23

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.450m [K=1.0000]
 Remarks: EMERGE

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20141023-3
MFR.:	SUR.:	PROTECTION ANGLE:

Table--3

UNIT: cd

C(DEG) g (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
5	74.8	73.3	71.6	69.6	67.4	65.0	62.9	60.9	58.8	56.9	55.6	54.3	53.5	53.0	52.7	52.7	52.8	53.4	54.0
10	142	137	130	122	114	105	95.7	86.4	78.2	70.3	63.0	57.3	53.1	50.3	48.9	48.3	48.5	49.4	51.3
15	211	203	194	183	172	158	144	123	103	84.8	69.9	58.1	48.8	42.5	39.1	37.6	37.5	39.1	42.2
20	254	246	237	226	210	183	156	129	104	81.8	62.9	48.8	39.0	32.5	28.7	26.7	26.4	28.5	32.0
25	276	267	258	237	208	177	147	115	85.4	64.2	48.9	38.1	30.9	25.9	22.7	20.9	20.5	21.8	24.6
30	269	262	245	215	185	155	125	98.4	74.4	53.8	38.5	27.9	21.9	18.4	16.3	15.0	14.5	14.8	16.1
35	231	224	197	170	143	119	93.3	68.5	45.7	27.6	21.8	18.2	16.0	14.5	13.4	12.7	12.5	12.6	13.2
40	166	153	130	107	91.2	72.2	49.2	30.5	25.6	20.9	17.1	14.1	12.4	11.4	10.6	10.4	10.4	10.4	10.5
45	83.2	74.9	63.2	55.5	45.7	29.1	25.1	21.1	16.7	12.8	11.0	10.3	9.91	9.57	9.29	9.19	9.17	9.06	9.02
50	35.7	32.8	29.3	25.2	19.3	17.9	15.0	11.1	10.4	9.70	9.02	8.54	8.26	8.07	8.04	8.03	7.93	7.75	7.70
55	16.9	15.6	14.8	12.4	11.8	10.2	9.45	8.91	8.19	7.45	7.15	7.09	7.02	6.91	6.85	6.83	6.74	6.64	6.63
60	9.33	9.08	8.65	8.27	7.68	7.75	7.52	7.07	6.73	6.46	6.36	6.26	6.11	5.88	5.70	5.62	5.55	5.55	5.59
65	6.38	6.42	6.36	6.28	6.44	6.28	6.21	6.02	5.79	5.53	5.41	5.23	5.00	4.77	4.60	4.51	4.52	4.56	4.61
70	5.37	5.34	5.38	5.48	5.58	5.43	5.22	5.02	4.74	4.43	4.18	3.97	3.75	3.61	3.50	3.41	3.49	3.57	3.63
75	4.57	4.62	4.78	4.89	4.91	4.72	4.48	4.17	3.76	3.46	3.20	3.01	2.85	2.73	2.62	2.56	2.59	2.63	2.69
80	3.92	4.13	4.32	4.31	4.22	4.00	3.76	3.41	3.01	2.71	2.38	2.18	2.07	1.90	1.74	1.71	1.69	1.70	1.74
85	3.28	3.60	3.69	3.61	3.41	2.44	1.77	1.22	0.81	0.54	0.33	0.21	0.13	0.07	0.03	0.01	0.00	0.01	0.03
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:
 Test Date:2014-10-23

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.450m [K=1.0000]
 Remarks: EMERGE

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20141023-3
MFR.:	SUR.:	PROTECTION ANGLE:

Table--4

UNIT: cd

C(DEG) g (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1				
5	55.1	56.3	57.9	60.0	62.0	64.6	67.4	70.1	72.9	75.8	78.5	80.9	83.0	84.8	86.2				
10	54.0	58.0	63.5	70.3	78.5	87.3	96.5	106	116	125	134	141	148	153	158				
15	47.2	54.7	65.2	78.3	94.2	113	133	152	166	177	187	196	204	210	216				
20	37.2	44.9	55.9	71.2	90.7	112	136	160	184	209	222	231	238	244	249				
25	28.9	35.1	44.0	56.7	72.5	93.0	120	148	175	201	227	244	250	255	260				
30	18.9	23.7	31.9	43.7	59.1	78.1	99.7	123	149	175	200	225	237	240	245				
35	14.5	16.9	20.6	25.2	31.7	48.9	69.4	91.0	112	132	154	177	200	203	206				
40	11.0	12.4	14.9	18.5	23.0	28.3	33.9	50.1	68.9	83.2	94.4	114	132	141	142				
45	9.16	9.55	10.1	10.8	12.9	17.6	22.6	27.1	31.0	43.2	49.5	55.0	63.5	69.3	68.2				
50	7.85	8.16	8.58	9.22	9.93	10.7	11.5	15.6	18.5	19.9	24.0	26.5	28.6	30.7	30.6				
55	6.82	7.02	7.29	7.66	8.04	8.65	9.14	9.47	10.1	11.7	11.7	13.2	13.5	14.4	14.5				
60	5.86	6.05	6.32	6.58	6.84	6.99	7.10	7.46	7.61	7.54	7.89	7.82	8.13	8.22	8.29				
65	4.83	5.03	5.26	5.49	5.68	5.86	6.02	6.20	6.15	6.13	6.21	6.14	6.04	6.11	6.08				
70	3.76	3.97	4.15	4.40	4.59	4.82	5.05	5.22	5.28	5.35	5.19	5.09	5.03	4.96	4.92				
75	2.84	2.99	3.20	3.38	3.63	3.86	4.16	4.36	4.54	4.74	4.71	4.39	4.22	4.06	4.07				
80	1.92	2.05	2.29	2.49	2.81	3.04	3.32	3.57	3.80	3.97	4.02	3.92	3.69	3.44	3.34				
85	0.07	0.12	0.22	0.35	0.55	0.81	1.17	1.67	2.34	3.24	3.41	3.42	3.27	3.10	2.78				
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:
 Test Date:2014-10-23

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.450m [K=1.0000]
 Remarks: EMERGE