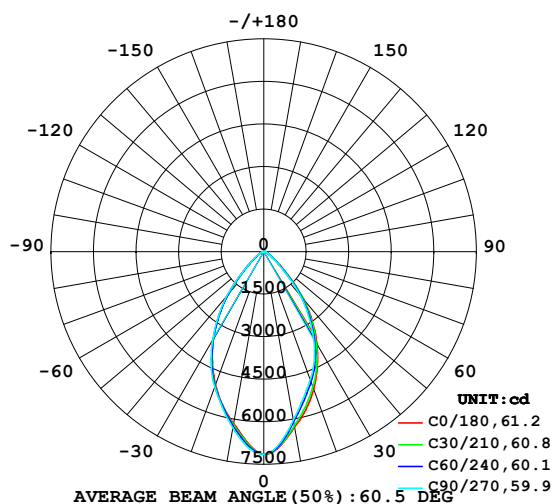


**LUMINAIRE PHOTOMETRIC TEST REPORT**

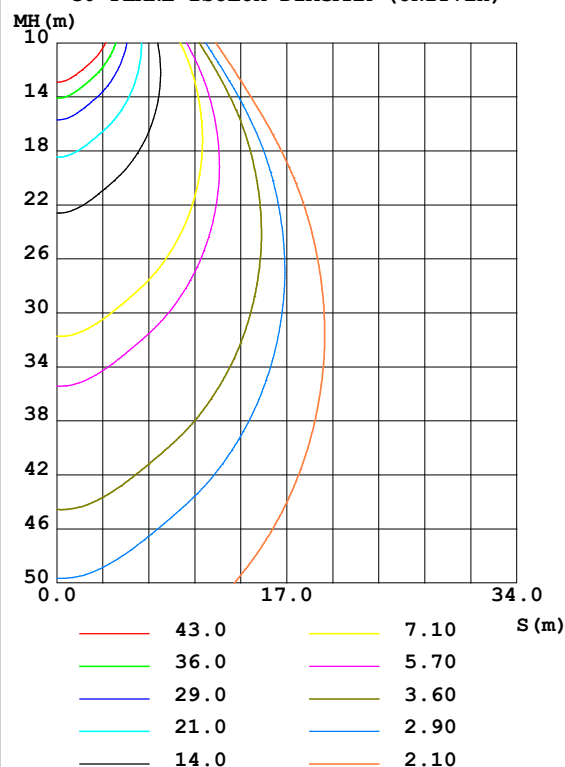
Test:U:220.24V I:0.2075A P:44.248W PF:0.9684 Freq:49.99Hz Lamp Flux:7522.81x1 lm		
NAME: Round X2 Series AC-EM	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-100-240-5K-60-X2-CG-*-EM	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 170.01 lm/W			
MODEL	N/A	I <sub>max</sub> (cd)	7148	S/MH(C0/180)	0.85
NOMINAL POWER(W)	45	LOR(%)	100.0	S/MH(C90/270)	0.87
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	7522.8	□ UP,DN(C0-180)	0.2,49.6
NOMINAL FLUX(lm)	7522.81	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.2,50.0
LAMPS INSIDE	1	□ up (%)	0.4	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220	□ down (%)	99.6	CIBSE SHR MAX	1.00

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:YZY  
 Test Date:10 December 2022

□ Range: 0 - 180DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:6.010m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	6285	6179	6034	6153	6156	6201	6310	6342	0- 10	630.2	630.2	8.38,8.38
20	5152	5012	4796	4954	4985	5039	5070	5160	10- 20	1574	2205	29.3,29.3
30	3755	3669	3512	3536	3563	3545	3617	3726	20- 30	1992	4196	55.8,55.8
40	2178	2111	1976	1943	1961	1915	2002	2111	30- 40	1755	5951	79.1,79.1
50	737.6	700.1	640.9	642.5	650.5	637.7	648.5	716.0	40- 50	953.0	6904	91.8,91.8
60	260.4	253.4	239.2	242.1	240.2	233.9	239.6	255.1	50- 60	366.6	7271	96.7,96.7
70	104.4	104.1	99.11	94.64	92.10	90.00	93.63	99.29	60- 70	162.6	7434	98.8,98.8
80	20.83	21.74	19.50	17.53	16.18	15.15	16.80	19.05	70- 80	55.05	7489	99.5,99.5
90	0.3648	0.3620	0.3408	0.2994	0.2510	0.2607	0.2374	0.2718	80- 90	5.828	7495	99.6,99.6
100	0.3649	0.3541	0.3624	0.3825	0.3887	0.3723	0.3589	0.3509	90-100	0.3194	7495	99.6,99.6
110	0.8035	0.7715	0.8067	0.8586	0.8672	0.8371	0.7780	0.7704	100-110	0.5808	7495	99.6,99.6
120	2.010	1.939	2.060	2.171	2.164	2.110	1.956	1.924	110-120	1.316	7497	99.7,99.7
130	4.361	4.313	4.508	4.701	4.646	4.537	4.294	4.210	120-130	2.800	7500	99.7,99.7
140	7.694	7.690	8.002	8.184	8.017	7.860	7.579	7.477	130-140	4.664	7504	99.8,99.8
150	11.34	11.51	11.87	11.96	11.62	11.47	11.28	11.11	140-150	6.029	7510	99.8,99.8
160	14.85	15.08	15.36	15.33	15.10	14.94	14.85	14.64	150-160	6.100	7516	99.9,99.9
170	17.88	17.97	18.05	18.00	18.11	17.88	17.88	17.78	160-170	4.647	7521	100,100
180	19.61	19.44	19.42	19.43	19.64	19.44	19.43	19.43	170-180	1.776	7523	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 6541.3 lm

%lum = 87.0%

%lamp = 87.0%

Conical surface Flux(120deg): 7271.1 lm

%lum = 96.7%

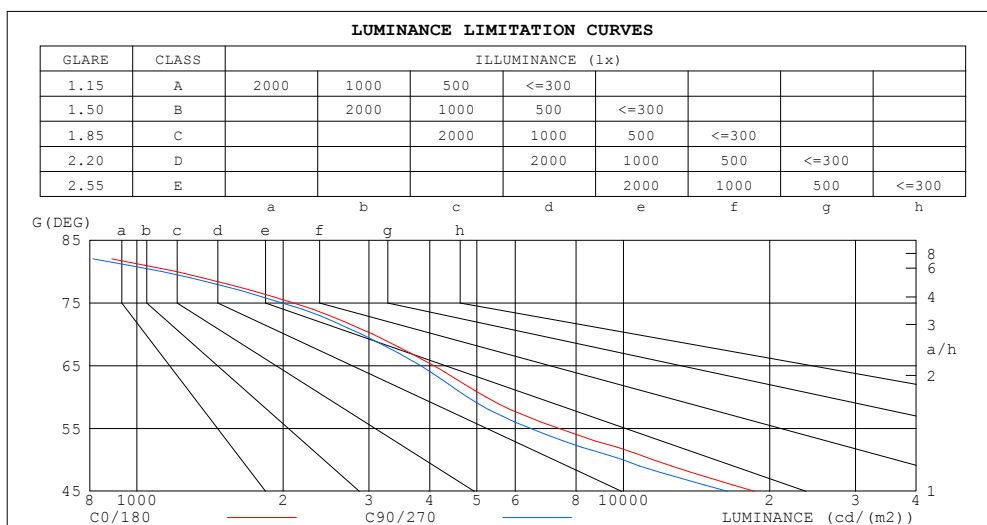
%lamp = 96.7%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:10 December 2022

□ Range: 0 - 180DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:6.010m [K=1.0000]  
 Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:220.24V I:0.2075A P:44.248W PF:0.9684 Freq:49.99Hz Lamp Flux:7522.81x1 lm		
NAME: Round X2 Series AC-EM	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-100-240-5K-60-X2-CG-*-EM	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	465	432
80	1201	1122
75	2092	1982
70	3056	2896
65	4073	3827
60	5214	4781
55	7355	6437
50	11488	9966
45	18608	16366

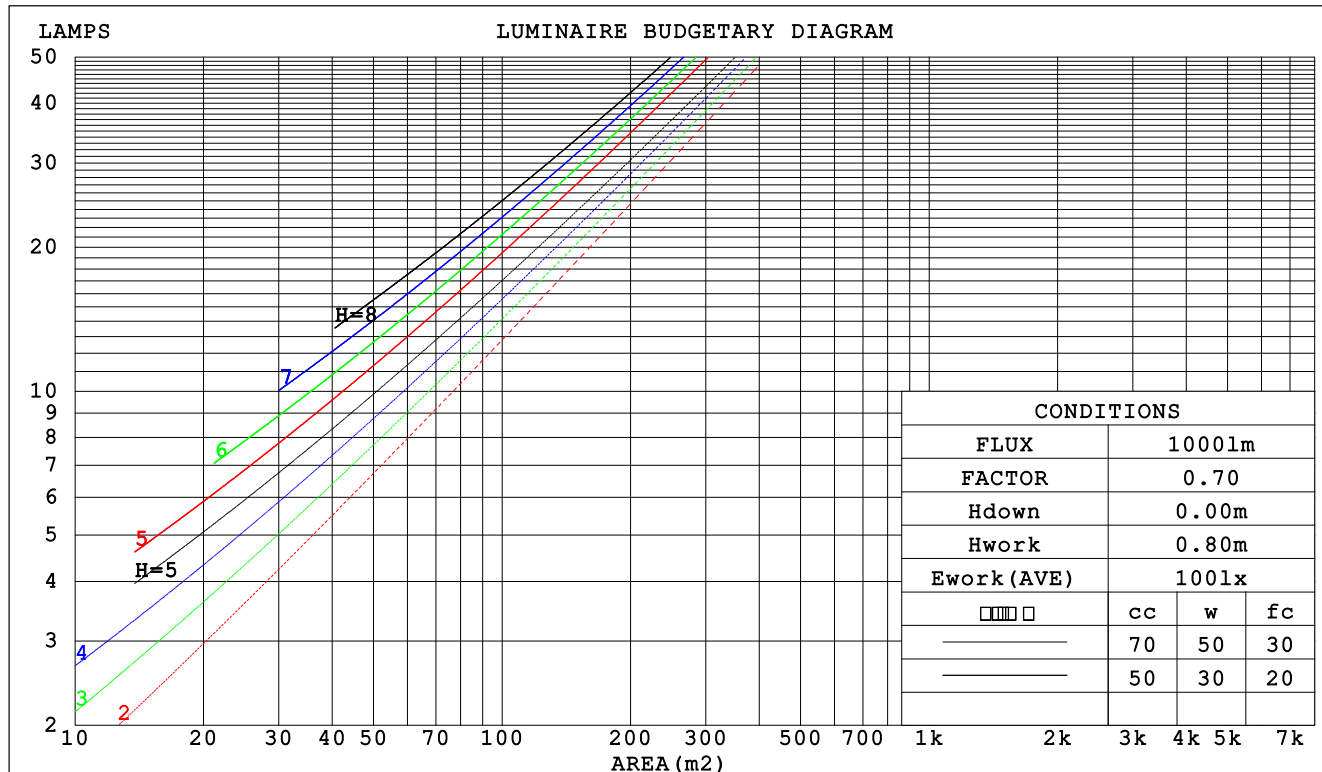
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:10 December 2022

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:6.010m [K=1.0000]  
 Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:220.24V I:0.2075A P:44.248W PF:0.9684 Freq:49.99Hz Lamp Flux:7522.81x1 lm		
NAME: Round X2 Series AC-EM	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-100-240-5K-60-X2-CG--EM	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio	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
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	1.09	1.07	1.04	1.07	1.05	1.02	1.03	1.01	.99	.99	.98	.96	.96	.94	.93	.91
2.0	1.00	.96	.92	.98	.94	.91	.95	.92	.89	.92	.89	.87	.89	.87	.85	.83
3.0	.92	.86	.82	.91	.85	.81	.88	.83	.80	.85	.82	.78	.83	.80	.77	.75
4.0	.85	.79	.74	.84	.78	.73	.81	.76	.72	.79	.75	.71	.77	.74	.71	.69
5.0	.78	.72	.67	.77	.71	.67	.76	.70	.66	.74	.69	.65	.72	.68	.65	.63
6.0	.73	.66	.61	.72	.66	.61	.70	.65	.60	.69	.64	.60	.67	.63	.60	.58
7.0	.68	.61	.56	.67	.61	.56	.66	.60	.56	.64	.59	.55	.63	.58	.55	.53
8.0	.63	.56	.52	.63	.56	.52	.61	.56	.51	.60	.55	.51	.59	.54	.51	.49
9.0	.59	.53	.48	.59	.52	.48	.58	.52	.48	.57	.51	.48	.56	.51	.47	.46
10.0	.55	.49	.45	.55	.49	.45	.54	.48	.45	.53	.48	.44	.52	.48	.44	.43



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:10 December 2022

□ Range: 0 - 180DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:6.010m [K=1.0000]  
 Remarks:

**WEC AND CCEC**

Test:U:220.24V I:0.2075A P:44.248W PF:0.9684 Freq:49.99Hz Lamp Flux:7522.81x1 lm		
NAME: Round X2 Series AC-EM	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-100-240-5K-60-X2-CG--EM	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

□cc	80%	70%	50%	30%	10%	0
□w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
□fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients (WEC)					
0.0						
1.0	.203 .115 .037	.196 .112 .035	.183 .105 .034	.171 .099 .032	.160 .093 .030	
2.0	.196 .108 .033	.191 .105 .032	.179 .100 .031	.169 .095 .030	.160 .090 .029	
3.0	.187 .100 .030	.182 .098 .029	.173 .094 .028	.164 .090 .028	.156 .086 .027	
4.0	.178 .093 .027	.174 .091 .027	.165 .088 .026	.158 .085 .026	.151 .082 .025	
5.0	.169 .086 .025	.165 .085 .025	.158 .082 .024	.151 .080 .024	.145 .077 .023	
6.0	.161 .081 .023	.157 .079 .023	.151 .077 .022	.145 .075 .022	.139 .073 .022	
7.0	.153 .076 .021	.150 .075 .021	.144 .073 .021	.139 .071 .021	.134 .069 .020	
8.0	.146 .071 .020	.143 .070 .020	.138 .069 .020	.133 .067 .019	.128 .066 .019	
9.0	.139 .067 .019	.136 .066 .019	.132 .065 .018	.127 .064 .018	.123 .063 .018	
10.0	.132 .064 .018	.130 .063 .018	.126 .062 .017	.122 .061 .017	.118 .059 .017	

□cc	80%	70%	50%	30%	10%	0
□w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
□fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients (CCEC)					
0.0	.193 .193 .193	.165 .165 .165	.113 .113 .113	.065 .065 .065	.021 .021 .021	
1.0	.176 .160 .146	.150 .137 .125	.103 .094 .087	.059 .055 .050	.019 .018 .016	
2.0	.162 .135 .112	.139 .116 .097	.095 .081 .068	.055 .047 .040	.018 .015 .013	
3.0	.152 .117 .089	.130 .101 .077	.089 .070 .054	.052 .041 .032	.017 .013 .010	
4.0	.142 .102 .072	.122 .088 .062	.084 .062 .044	.049 .036 .026	.016 .012 .009	
5.0	.134 .091 .059	.115 .079 .051	.079 .055 .036	.046 .032 .022	.015 .011 .007	
6.0	.127 .082 .050	.109 .071 .043	.075 .050 .031	.044 .029 .018	.014 .010 .006	
7.0	.121 .075 .042	.104 .065 .037	.072 .045 .026	.042 .027 .016	.014 .009 .005	
8.0	.115 .069 .037	.099 .060 .032	.069 .042 .023	.040 .025 .014	.013 .008 .004	
9.0	.110 .064 .032	.095 .055 .028	.066 .039 .020	.038 .023 .012	.012 .008 .004	
10.0	.105 .059 .029	.091 .052 .025	.063 .036 .018	.037 .021 .011	.012 .007 .004	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:10 December 2022

□ Range: 0 - 180DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:6.010m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:220.24V I:0.2075A P:44.248W PF:0.9684 Freq:49.99Hz Lamp Flux:7522.81x1 lm										
NAME: Round X2 Series AC-EM					TYPE:Floodlight			WEIGHT:N/A		
SPEC.:RND-45-100-240-5K-60-X2-CG-*--EM					DIM.: N/A			SERIAL No.:N/A		
MFR.: Red Sky Lighting					SUR.:N/A			Shielding Angle:N/A		
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	12.1	13.2	12.4	13.4	13.6	11.6	12.7	11.9	12.9	13.1
3H	12.2	13.2	12.4	13.4	13.6	11.7	12.7	12.0	12.9	13.1
4H	12.1	13.1	12.4	13.3	13.5	11.7	12.6	12.0	12.9	13.1
6H	12.1	12.9	12.4	13.2	13.5	11.6	12.5	11.9	12.8	13.0
8H	12.0	12.9	12.3	13.1	13.4	11.6	12.4	11.9	12.7	13.0
12H	12.0	12.8	12.3	13.1	13.4	11.5	12.3	11.9	12.6	12.9
4H 2H	12.0	13.0	12.3	13.2	13.4	11.6	12.5	11.9	12.8	13.0
3H	12.1	12.9	12.4	13.2	13.5	11.7	12.5	12.0	12.8	13.1
4H	12.1	12.8	12.5	13.2	13.5	11.7	12.4	12.0	12.7	13.1
6H	12.1	12.7	12.4	13.1	13.4	11.6	12.3	12.0	12.6	13.0
8H	12.0	12.6	12.4	13.0	13.4	11.6	12.2	12.0	12.6	12.9
12H	12.0	12.5	12.4	12.9	13.3	11.6	12.1	12.0	12.5	12.9
8H 4H	12.0	12.6	12.4	13.0	13.4	11.6	12.2	12.0	12.6	12.9
6H	12.0	12.5	12.4	12.9	13.3	11.6	12.1	12.0	12.5	12.9
8H	11.9	12.4	12.4	12.8	13.2	11.5	12.0	12.0	12.4	12.8
12H	11.9	12.3	12.4	12.7	13.2	11.5	11.9	12.0	12.3	12.8
12H 4H	12.0	12.5	12.4	12.9	13.3	11.6	12.1	12.0	12.5	12.9
6H	11.9	12.4	12.4	12.8	13.2	11.5	12.0	12.0	12.4	12.8
8H	11.9	12.3	12.4	12.7	13.2	11.5	11.9	12.0	12.3	12.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.8 / - 3.7					+ 1.9 / - 3.8				
1.5H	+ 2.7 / - 3.2					+ 2.7 / - 3.1				
2.0H	+ 4.0 / - 3.0					+ 3.7 / - 2.7				

 CIE Pub.117, 7523 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 7.0$ )

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:10 December 2022

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:6.010m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:220.24V I:0.2075A P:44.248W PF:0.9684 Freq:49.99Hz Lamp Flux:7522.81x1 lm		
NAME: Round X2 Series AC-EM	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-100-240-5K-60-X2-CG-*--EM	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

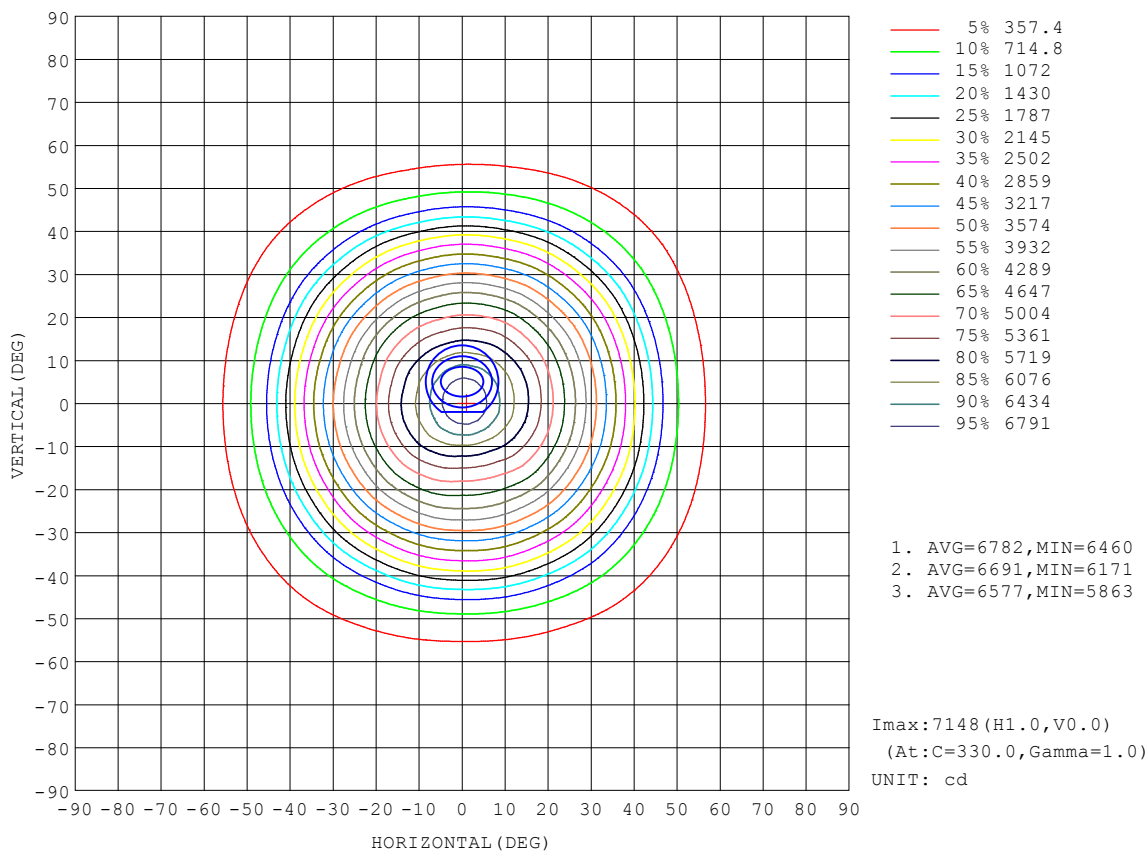
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	78	70	66	78	70	66	77	70	65	61
0.80	87	80	75	86	79	75	85	78	74	70
1.00	93	86	82	92	86	81	90	86	81	76
1.25	98	92	87	97	91	87	95	90	86	81
1.50	102	96	91	100	95	91	98	93	90	85
2.00	105	100	97	104	99	96	101	97	94	88
2.50	108	103	99	106	102	98	103	99	96	90
3.00	110	106	102	108	104	101	104	101	99	92
4.00	112	109	106	110	107	104	106	104	102	94
5.00	113	111	108	111	109	107	107	105	103	95
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHR NOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: YZY  
 Test Date: 10 December 2022

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity: 65.0%  
 Test Distance: 6.010m [K=1.0000]  
 Remarks:

### ISOCANDELA DIAGRAM

Test:U:220.24V I:0.2075A P:44.248W PF:0.9684 Freq:49.99Hz Lamp Flux:7522.81x1 lm		
NAME: Round X2 Series AC-EM	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-100-240-5K-60-X2-CG-*-EM	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:10 December 2022

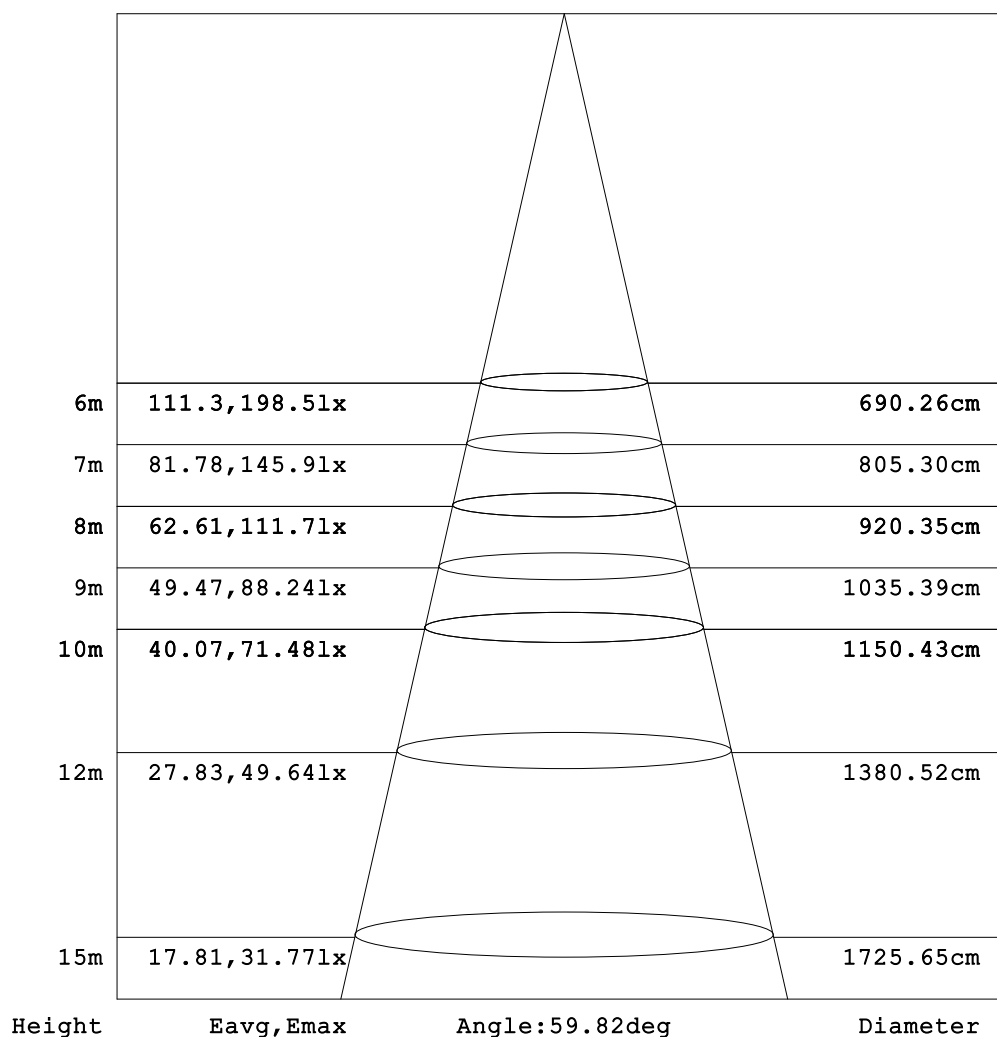
☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:6.010m [K=1.0000]  
 Remarks:



### AAI Figure

Test:U:220.24V I:0.2075A P:44.248W PF:0.9684 Freq:49.99Hz Lamp Flux:7522.81x1 lm		
NAME: Round X2 Series AC-EM	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-100-240-5K-60-X2-CG-*-EM	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

Flux out:4196 lm



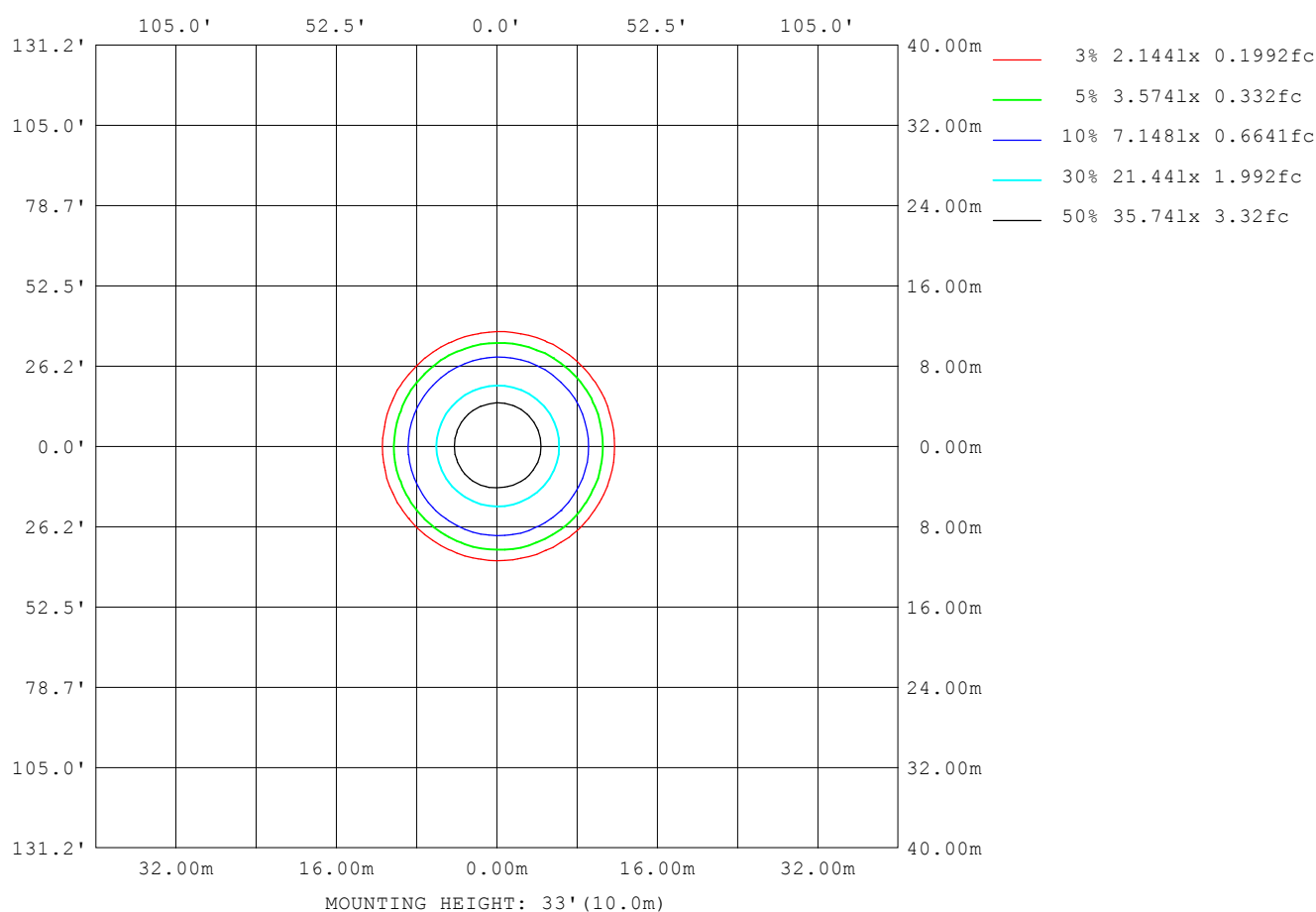
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:10 December 2022

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:6.010m [K=1.0000]  
 Remarks:

### ISOLUX DIAGRAM

Test:U:220.24V I:0.2075A P:44.248W PF:0.9684 Freq:49.99Hz Lamp Flux:7522.81x1 lm		
NAME: Round X2 Series AC-EM	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-100-240-5K-60-X2-CG-*-EM	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:10 December 2022

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:6.010m [K=1.0000]  
 Remarks:

### LED Avg.L Report

Test:U:220.24V I:0.2075A P:44.248W PF:0.9684 Freq:49.99Hz Lamp Flux:7522.81x1 lm		
NAME: Round X2 Series AC-EM	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-100-240-5K-60-X2-CG-*-EM	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

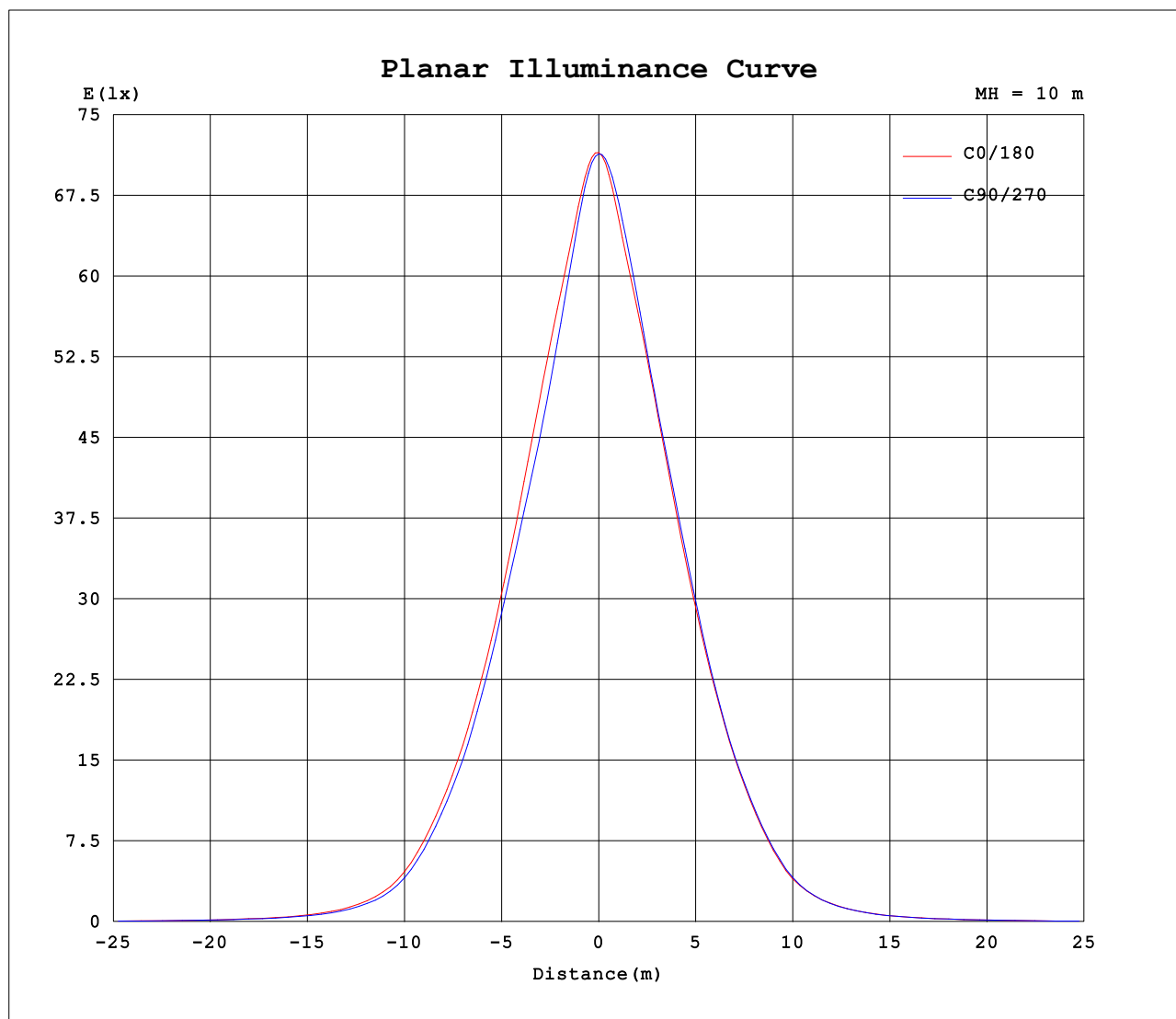
AvgL	cd/m2
L_0~180 (65) av	3890
L_0~180 (75) av	1924
L_0~180 (85) av	365
L_90~270 (65) av	3784
L_90~270 (75) av	1897
L_90~270 (85) av	369
L_45 (65) av	3822
L_45 (75) av	1911
L_45 (85) av	368

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:10 December 2022

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:6.010m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: YZY  
Test Date: 10 December 2022

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity: 65.0%  
Test Distance: 6.010m [K=1.0000]  
Remarks:

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:220.24V I:0.2075A P:44.248W PF:0.9684 Freq:49.99Hz Lamp Flux:7522.81x1 lm		
NAME: Round X2 Series AC-EM	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-100-240-5K-60-X2-CG-*--EM	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

Table--1

UNIT: cd

C (DEG) □ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	7140	7140	7140	7140	7140	7140	7140	7140	7140	7140	7140	7140	7140	7140	7140	7140	7140	7140	7140
5	6860	6872	6844	6843	6805	6798	6757	6759	6736	6745	6723	6731	6743	6740	6774	6785	6831	6851	6886
10	6285	6291	6234	6179	6100	6070	6034	6073	6105	6153	6146	6154	6156	6161	6195	6201	6243	6267	6310
15	5762	5742	5666	5582	5449	5386	5361	5424	5488	5568	5593	5619	5616	5599	5639	5638	5642	5634	5674
20	5152	5137	5074	5012	4883	4817	4796	4853	4897	4954	4967	4985	4985	4976	5028	5039	5045	5028	5070
25	4480	4479	4437	4400	4296	4251	4219	4252	4258	4288	4280	4295	4295	4283	4332	4338	4357	4351	4403
30	3755	3752	3699	3669	3586	3558	3512	3523	3510	3536	3529	3557	3563	3539	3564	3545	3567	3564	3617
35	2984	2978	2916	2886	2818	2795	2742	2740	2719	2743	2736	2770	2781	2753	2764	2740	2765	2764	2811
40	2178	2181	2127	2111	2048	2031	1976	1972	1930	1943	1922	1950	1961	1927	1941	1915	1947	1945	2002
45	1314	1319	1285	1271	1222	1199	1158	1146	1115	1120	1109	1124	1129	1112	1120	1106	1122	1124	1163
50	738	737	715	700	675	651	641	638	640	643	647	650	650	647	642	638	633	637	648
55	421	425	412	403	384	379	369	375	372	379	375	380	380	374	375	367	369	366	377
60	260	263	256	253	245	243	239	241	240	242	240	241	240	238	237	234	235	234	240
65	172	174	171	170	165	165	162	162	159	160	156	158	157	154	155	152	154	153	158
70	104	105	104	104	102	101	99.1	98.0	95.6	94.6	92.6	92.7	92.1	90.6	90.6	90.0	90.7	91.4	93.6
75	54.1	55.5	54.7	55.3	53.5	53.5	51.3	50.6	48.4	47.8	45.7	46.2	45.5	44.2	44.8	43.7	44.7	44.9	46.9
80	20.8	21.5	21.3	21.7	20.8	20.9	19.5	19.0	17.9	17.5	16.5	16.5	16.2	15.3	15.6	15.1	15.7	15.8	16.8
85	4.05	4.41	4.38	4.48	4.10	4.20	3.76	3.56	3.17	3.04	2.66	2.56	2.31	2.07	2.18	2.08	2.29	2.30	2.67
90	0.36	0.35	0.37	0.36	0.34	0.34	0.34	0.28	0.33	0.30	0.30	0.29	0.25	0.25	0.24	0.26	0.23	0.26	0.24
95	0.29	0.28	0.29	0.28	0.29	0.28	0.29	0.28	0.29	0.29	0.29	0.29	0.29	0.28	0.27	0.27	0.27	0.27	0.26
100	0.36	0.36	0.36	0.35	0.35	0.36	0.36	0.37	0.38	0.38	0.39	0.39	0.39	0.38	0.38	0.37	0.37	0.36	0.36
105	0.53	0.52	0.52	0.51	0.51	0.51	0.53	0.53	0.55	0.56	0.57	0.58	0.57	0.56	0.55	0.54	0.53	0.53	0.52
110	0.80	0.78	0.79	0.77	0.78	0.78	0.81	0.82	0.85	0.86	0.89	0.88	0.87	0.87	0.84	0.84	0.81	0.80	0.78
115	1.27	1.23	1.24	1.22	1.25	1.24	1.29	1.30	1.36	1.37	1.43	1.42	1.37	1.38	1.33	1.33	1.28	1.28	1.23
120	2.01	1.95	1.98	1.94	1.99	1.98	2.06	2.07	2.16	2.17	2.26	2.23	2.16	2.18	2.11	2.11	2.03	2.03	1.96
125	3.04	2.99	3.01	2.98	3.03	3.04	3.13	3.17	3.26	3.29	3.38	3.38	3.27	3.26	3.20	3.17	3.08	3.06	2.99
130	4.36	4.30	4.34	4.31	4.38	4.40	4.51	4.56	4.67	4.70	4.80	4.79	4.65	4.65	4.56	4.54	4.42	4.39	4.29
135	5.94	5.88	5.93	5.91	6.01	6.03	6.16	6.21	6.35	6.36	6.46	6.44	6.26	6.26	6.16	6.12	6.00	5.96	5.85
140	7.69	7.63	7.70	7.69	7.83	7.85	8.00	8.05	8.20	8.18	8.27	8.24	8.02	8.02	7.89	7.86	7.73	7.71	7.58
145	9.51	9.49	9.56	9.60	9.77	9.81	9.96	10.0	10.1	10.1	10.1	10.1	9.83	9.82	9.69	9.68	9.59	9.57	9.43
150	11.3	11.4	11.5	11.5	11.7	11.7	11.9	11.9	12.0	12.0	12.0	11.9	11.6	11.6	11.5	11.5	11.4	11.4	11.3
155	13.1	13.2	13.3	13.4	13.5	13.5	13.7	13.7	13.8	13.7	13.7	13.6	13.4	13.3	13.2	13.2	13.2	13.2	13.1
160	14.8	14.9	15.0	15.1	15.2	15.2	15.4	15.4	15.4	15.3	15.4	15.3	15.1	15.0	14.9	14.9	14.9	14.9	14.8
165	16.5	16.5	16.6	16.6	16.7	16.8	16.8	16.9	16.9	16.8	16.8	16.8	16.7	16.6	16.5	16.5	16.5	16.6	16.5
170	17.9	17.9	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.1	18.0	17.9	17.9	17.9	17.9	17.9
175	19.0	19.0	19.0	18.9	18.9	18.9	18.9	18.9	19.0	18.9	19.0	19.1	19.2	19.1	18.9	18.9	18.9	18.9	18.9
180	19.6	19.6	19.5	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.5	19.5	19.6	19.6	19.5	19.4	19.4	19.4	19.4

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:YZY  
Test Date:10 December 2022

□ Range: 0 - 180DEG  
□ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:6.010m [K=1.0000]  
Remarks:

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:220.24V I:0.2075A P:44.248W PF:0.9684 Freq:49.99Hz Lamp Flux:7522.81x1 lm		
NAME: Round X2 Series AC-EM	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-100-240-5K-60-X2-CG-*-EM	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

Table--2

UNIT: cd

C (DEG) □ (DEG)	285	300	315	330	345														
0	7140	7140	7140	7140	7140														
5	6883	6900	6883	6893	6871														
10	6310	6347	6342	6344	6301														
15	5702	5759	5773	5799	5788														
20	5104	5159	5160	5184	5175														
25	4432	4488	4481	4507	4494														
30	3642	3712	3726	3774	3766														
35	2833	2905	2931	2989	2988														
40	2021	2091	2111	2175	2173														
45	1186	1236	1258	1308	1311														
50	674	700	716	740	739														
55	386	405	413	425	422														
60	243	252	255	261	259														
65	159	164	165	170	170														
70	95.4	98.2	99.3	102	103														
75	47.4	50.1	50.9	53.0	52.9														
80	17.2	18.8	19.1	20.3	20.2														
85	2.69	3.12	3.21	3.53	3.67														
90	0.25	0.24	0.27	0.25	0.28														
95	0.27	0.26	0.26	0.26	0.26														
100	0.36	0.35	0.35	0.35	0.35														
105	0.52	0.51	0.51	0.51	0.51														
110	0.78	0.76	0.77	0.76	0.77														
115	1.24	1.20	1.22	1.19	1.21														
120	1.96	1.90	1.92	1.88	1.91														
125	2.97	2.91	2.93	2.88	2.91														
130	4.28	4.20	4.21	4.16	4.19														
135	5.83	5.75	5.76	5.69	5.72														
140	7.58	7.47	7.48	7.39	7.43														
145	9.42	9.32	9.30	9.20	9.23														
150	11.3	11.2	11.1	11.0	11.0														
155	13.0	12.9	12.9	12.8	12.8														
160	14.8	14.7	14.6	14.6	14.6														
165	16.5	16.3	16.3	16.2	16.3														
170	17.8	17.8	17.8	17.7	17.7														
175	18.9	18.9	18.9	18.9	18.9														
180	19.4	19.4	19.4	19.5	19.5														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:10 December 2022

□ Range: 0 - 180DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:6.010m [K=1.0000]  
 Remarks: