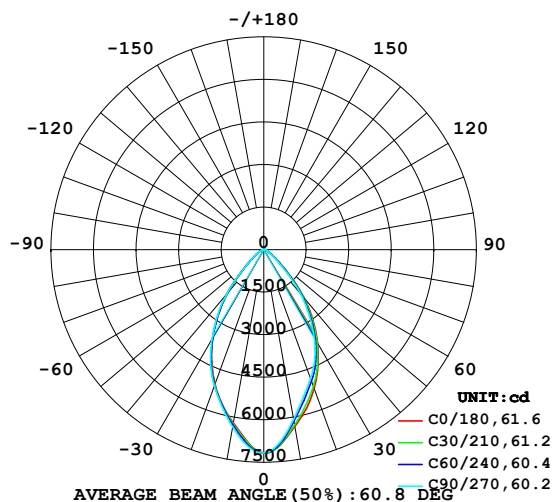


**LUMINAIRE PHOTOMETRIC TEST REPORT**

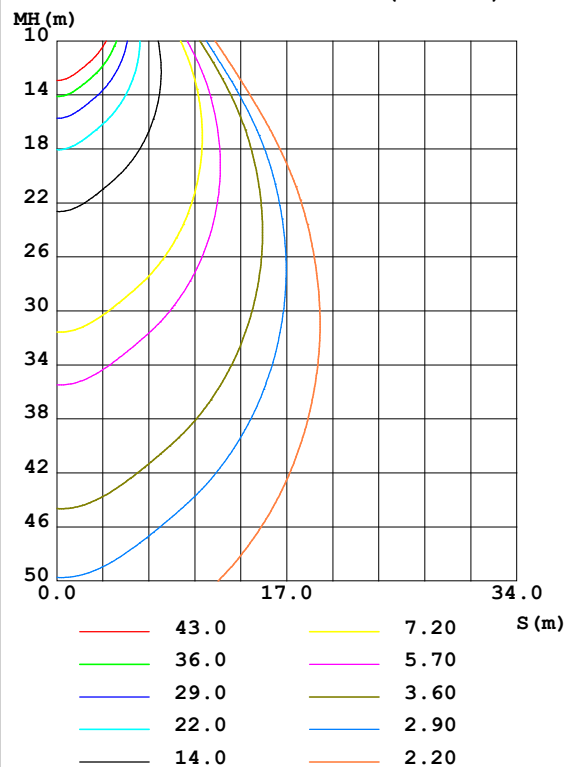
Test:U:24.300V I:1.9000A P:46.170W PF:1.0000 Freq:0Hz Lamp Flux:7613.35x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-60-X2-CG-*	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 164.90 lm/W			
MODEL	N/A	I <sub>max</sub> (cd)	7180	S/MH(C0/180)	0.86
NOMINAL POWER(W)	45	LOR(%)	100.0	S/MH(C90/270)	0.87
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	7613.4	□ UP,DN(C0-180)	0.2,49.6
NOMINAL FLUX(lm)	7613.35	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)	24	□ 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:12 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	6326	6220	6072	6192	6200	6241	6348	6382	0- 10	633.8	633.8	8.33,8.33
20	5199	5052	4833	4994	5037	5084	5111	5204	10- 20	1586	2220	29.2,29.2
30	3799	3712	3552	3576	3614	3590	3658	3764	20- 30	2012	4232	55.6,55.6
40	2213	2145	2008	1975	2003	1950	2032	2142	30- 40	1778	6010	78.9,78.9
50	754.9	717.8	657.4	657.5	668.5	653.0	662.2	729.9	40- 50	972.5	6983	91.7,91.7
60	265.6	258.5	243.7	246.8	245.6	238.1	243.8	259.6	50- 60	374.7	7357	96.6,96.6
70	106.3	105.8	101.1	96.44	94.26	91.62	95.34	100.9	60- 70	165.5	7523	98.8,98.8
80	21.11	22.07	19.81	17.83	16.55	15.48	17.06	19.32	70- 80	56.05	7579	99.5,99.5
90	0.3703	0.3676	0.3483	0.3041	0.2606	0.2634	0.2374	0.2732	80- 90	5.906	7585	99.6,99.6
100	0.3745	0.3639	0.3651	0.3889	0.4032	0.3789	0.3655	0.3554	90-100	0.3246	7585	99.6,99.6
110	0.8264	0.7909	0.8193	0.8742	0.8886	0.8514	0.7955	0.7868	100-110	0.5924	7586	99.6,99.6
120	2.058	1.983	2.099	2.212	2.216	2.160	1.997	1.964	110-120	1.344	7587	99.7,99.7
130	4.455	4.393	4.577	4.780	4.736	4.610	4.375	4.280	120-130	2.854	7590	99.7,99.7
140	7.831	7.808	8.115	8.293	8.145	7.983	7.697	7.582	130-140	4.739	7595	99.8,99.8
150	11.50	11.65	12.01	12.08	11.78	11.62	11.44	11.26	140-150	6.112	7601	99.8,99.8
160	15.03	15.25	15.51	15.47	15.28	15.10	15.00	14.80	150-160	6.170	7607	99.9,99.9
170	18.07	18.15	18.21	18.18	18.31	18.06	18.05	17.94	160-170	4.693	7612	100,100
180	19.83	19.64	19.61	19.59	19.85	19.63	19.61	19.59	170-180	1.793	7613	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 6611.2 lm

%lum = 86.8%

%lamp = 86.8%

Conical surface Flux(120deg): 7357.3 lm

%lum = 96.6%

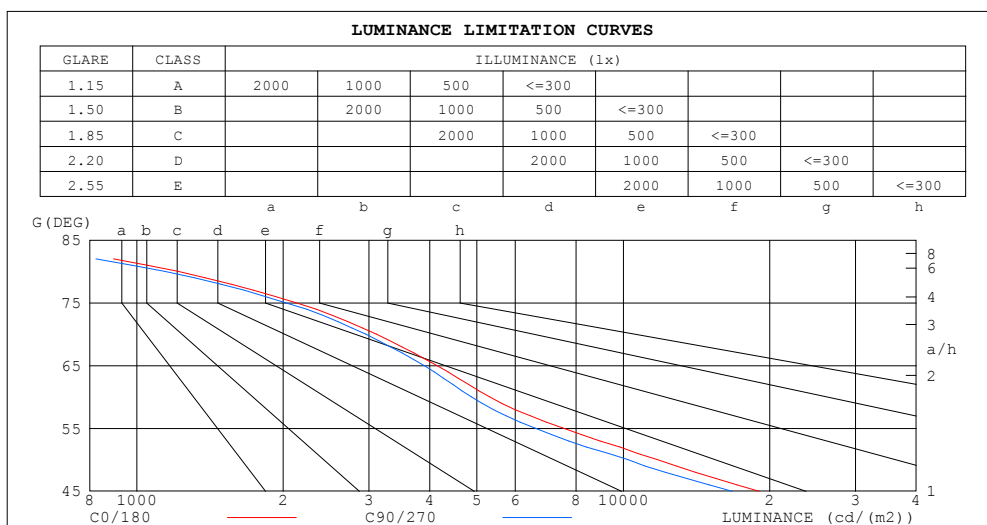
%lamp = 96.6%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:12 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:24.300V I:1.9000A P:46.170W PF:1.0000 Freq:0Hz Lamp Flux:7613.35x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-60-X2-CG-*	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A



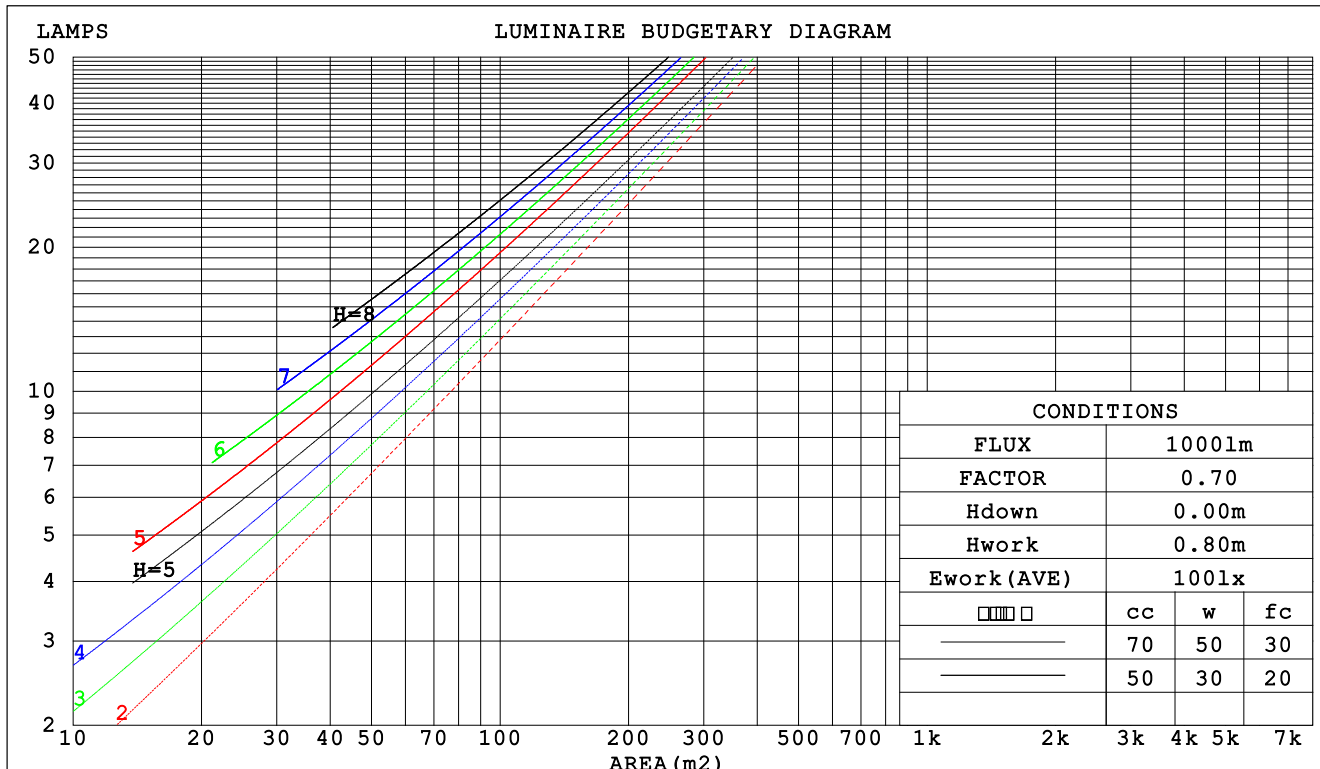
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:YZY  
Test Date:12 December 2022

☐ 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:24.300V I:1.9000A P:46.170W PF:1.0000 Freq:0Hz Lamp Flux:7613.35x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-60-X2-CG-*	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						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	1.09	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	.70	.69
5.0	.78	.72	.67	.77	.71	.67	.75	.70	.66	.74	.69	.65	.72	.68	.65	.63
6.0	.73	.66	.61	.72	.65	.61	.70	.65	.60	.69	.64	.60	.67	.63	.59	.58
7.0	.68	.61	.56	.67	.60	.56	.66	.60	.56	.64	.59	.55	.63	.58	.55	.53
8.0	.63	.56	.52	.62	.56	.52	.61	.55	.51	.60	.55	.51	.59	.54	.51	.49
9.0	.59	.52	.48	.58	.52	.48	.57	.52	.48	.56	.51	.47	.56	.51	.47	.46
10.0	.55	.49	.45	.55	.49	.45	.54	.48	.44	.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:12 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:24.300V I:1.9000A P:46.170W PF:1.0000 Freq:0Hz Lamp Flux:7613.35x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-60-X2-CG-*	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 .036	.183 .105 .034	.171 .099 .032	.160 .093 .030	
2.0	.197 .108 .033	.191 .105 .032	.180 .100 .031	.170 .095 .030	.160 .091 .029	
3.0	.188 .100 .030	.183 .098 .029	.173 .094 .029	.164 .090 .028	.156 .086 .027	
4.0	.178 .093 .027	.174 .091 .027	.166 .088 .026	.158 .085 .026	.151 .082 .025	
5.0	.170 .086 .025	.166 .085 .025	.158 .082 .024	.151 .080 .024	.145 .078 .023	
6.0	.161 .081 .023	.158 .080 .023	.151 .077 .023	.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	.137 .067 .019	.132 .065 .018	.127 .064 .018	.123 .063 .018	
10.0	.133 .064 .018	.130 .063 .018	.126 .062 .017	.122 .061 .017	.118 .060 .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	.080 .055 .036	.046 .032 .022	.015 .011 .007	
6.0	.127 .082 .050	.109 .071 .043	.076 .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	.106 .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:12 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:24.300V I:1.9000A P:46.170W PF:1.0000 Freq:0Hz Lamp Flux:7613.35x1 lm										
NAME: Round X2 Series DC					TYPE:Floodlight			WEIGHT:N/A		
SPEC.:RND-45-24-5K-60-X2-CG-*					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	12.2	13.3	12.4	13.4	13.6	11.7	12.8	11.9	13.0	13.2
3H	12.2	13.2	12.5	13.4	13.6	11.7	12.8	12.0	13.0	13.2
4H	12.2	13.1	12.5	13.4	13.6	11.7	12.7	12.0	12.9	13.1
6H	12.1	13.0	12.4	13.2	13.5	11.7	12.5	12.0	12.8	13.1
8H	12.1	12.9	12.4	13.2	13.5	11.6	12.5	11.9	12.7	13.0
12H	12.0	12.8	12.3	13.1	13.4	11.6	12.4	11.9	12.7	13.0
4H 2H	12.0	13.0	12.3	13.2	13.5	11.6	12.6	11.9	12.8	13.0
3H	12.1	13.0	12.5	13.3	13.5	11.7	12.6	12.1	12.8	13.1
4H	12.1	12.9	12.5	13.2	13.5	11.7	12.5	12.1	12.8	13.1
6H	12.1	12.8	12.5	13.1	13.5	11.7	12.3	12.1	12.7	13.0
8H	12.1	12.7	12.5	13.0	13.4	11.6	12.3	12.1	12.6	13.0
12H	12.0	12.6	12.4	12.9	13.3	11.6	12.2	12.0	12.5	12.9
8H 4H	12.1	12.7	12.5	13.0	13.4	11.6	12.3	12.1	12.6	13.0
6H	12.0	12.5	12.5	12.9	13.3	11.6	12.1	12.1	12.5	12.9
8H	12.0	12.4	12.4	12.8	13.3	11.6	12.0	12.0	12.4	12.9
12H	11.9	12.3	12.4	12.8	13.2	11.5	11.9	12.0	12.4	12.8
12H 4H	12.0	12.6	12.4	12.9	13.3	11.6	12.2	12.0	12.5	12.9
6H	12.0	12.4	12.4	12.8	13.3	11.6	12.0	12.0	12.4	12.9
8H	11.9	12.3	12.4	12.8	13.2	11.5	11.9	12.0	12.4	12.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.8 / - 3.7					+ 1.8 / - 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, 7613 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 7.1$ )

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:12 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:24.300V I:1.9000A P:46.170W PF:1.0000 Freq:0Hz Lamp Flux:7613.35x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-60-X2-CG-*	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

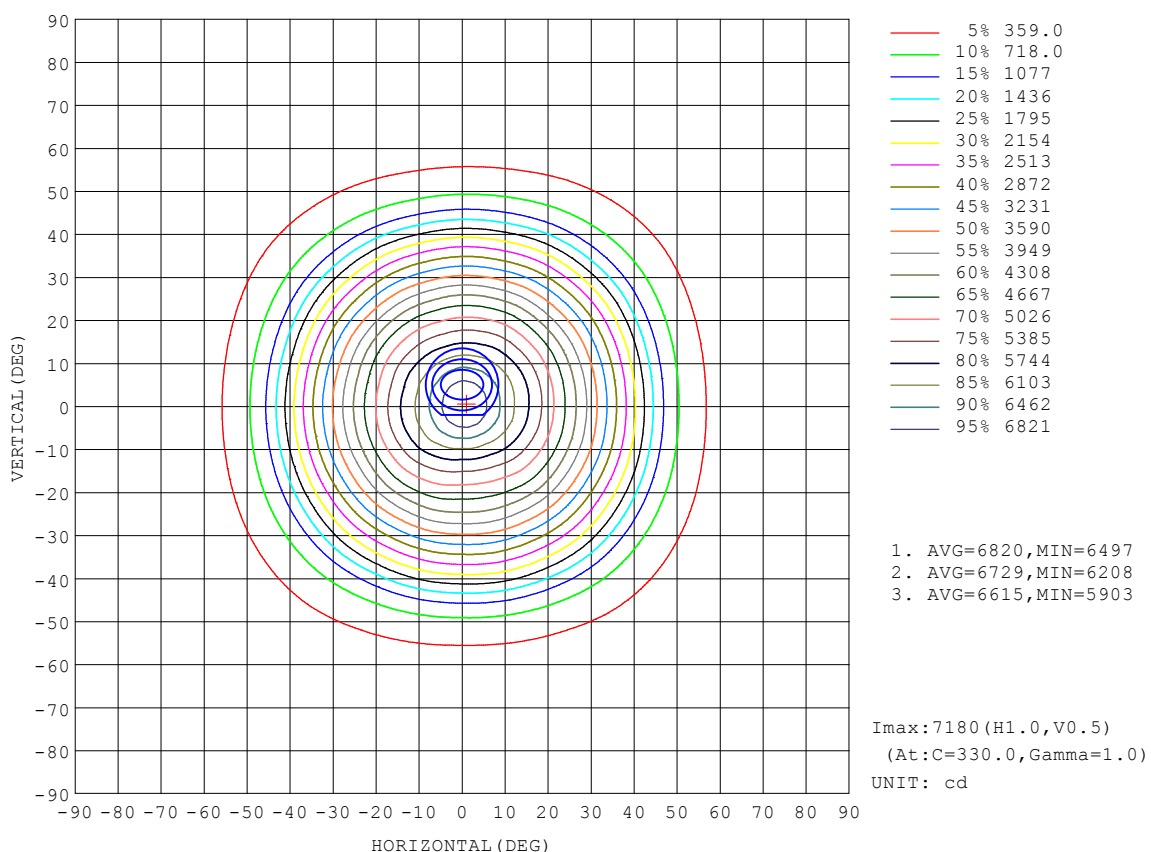
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	78	70	66	78	70	65	77	70	65	61
0.80	87	79	75	86	79	75	85	78	74	69
1.00	93	86	81	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	96	104	99	96	101	97	94	88
2.50	108	103	99	106	102	98	103	99	96	90
3.00	110	105	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: 12 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:24.300V I:1.9000A P:46.170W PF:1.0000 Freq:0Hz Lamp Flux:7613.35x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-60-X2-CG-*	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:12 December 2022

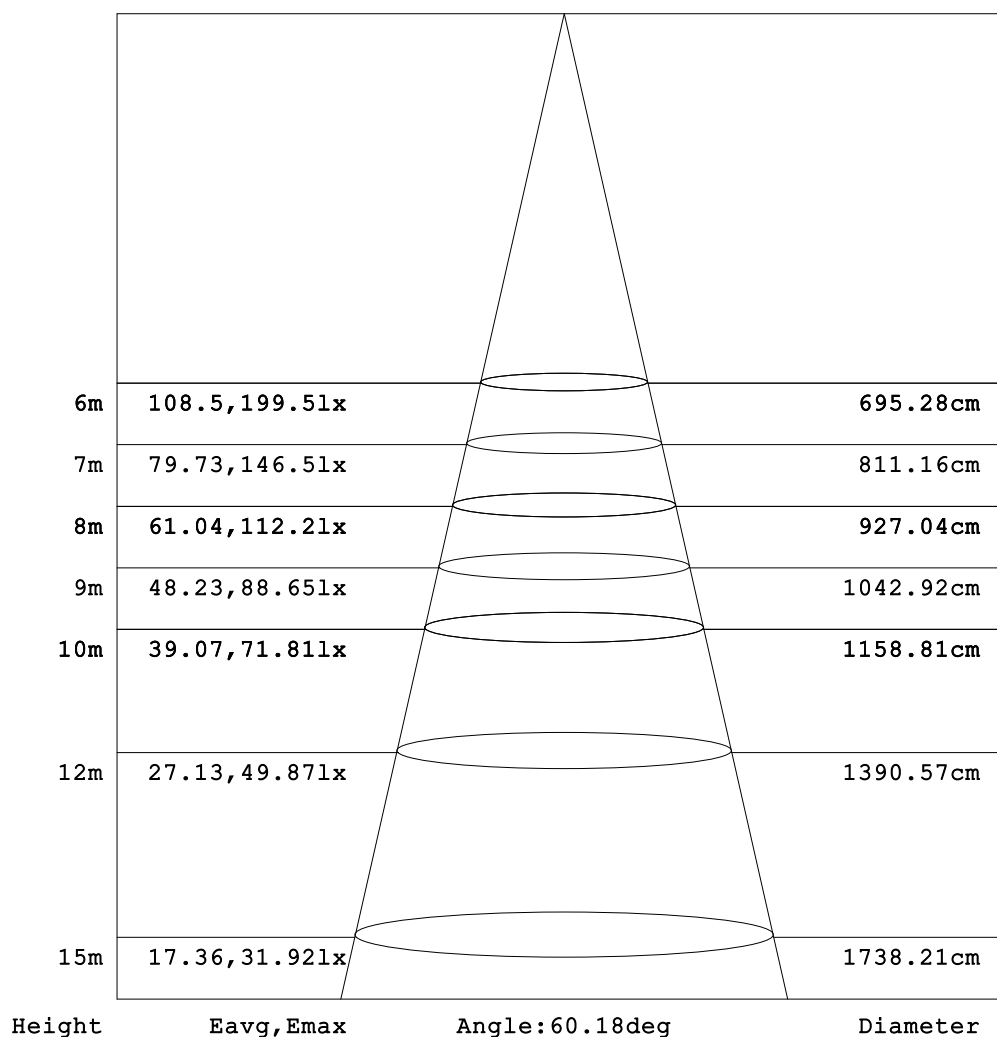
☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:6.010m [K=1.0000]  
 Remarks:



### AAI Figure

Test:U:24.300V I:1.9000A P:46.170W PF:1.0000 Freq:0Hz Lamp Flux:7613.35x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-60-X2-CG-*	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

Flux out:4431 lm



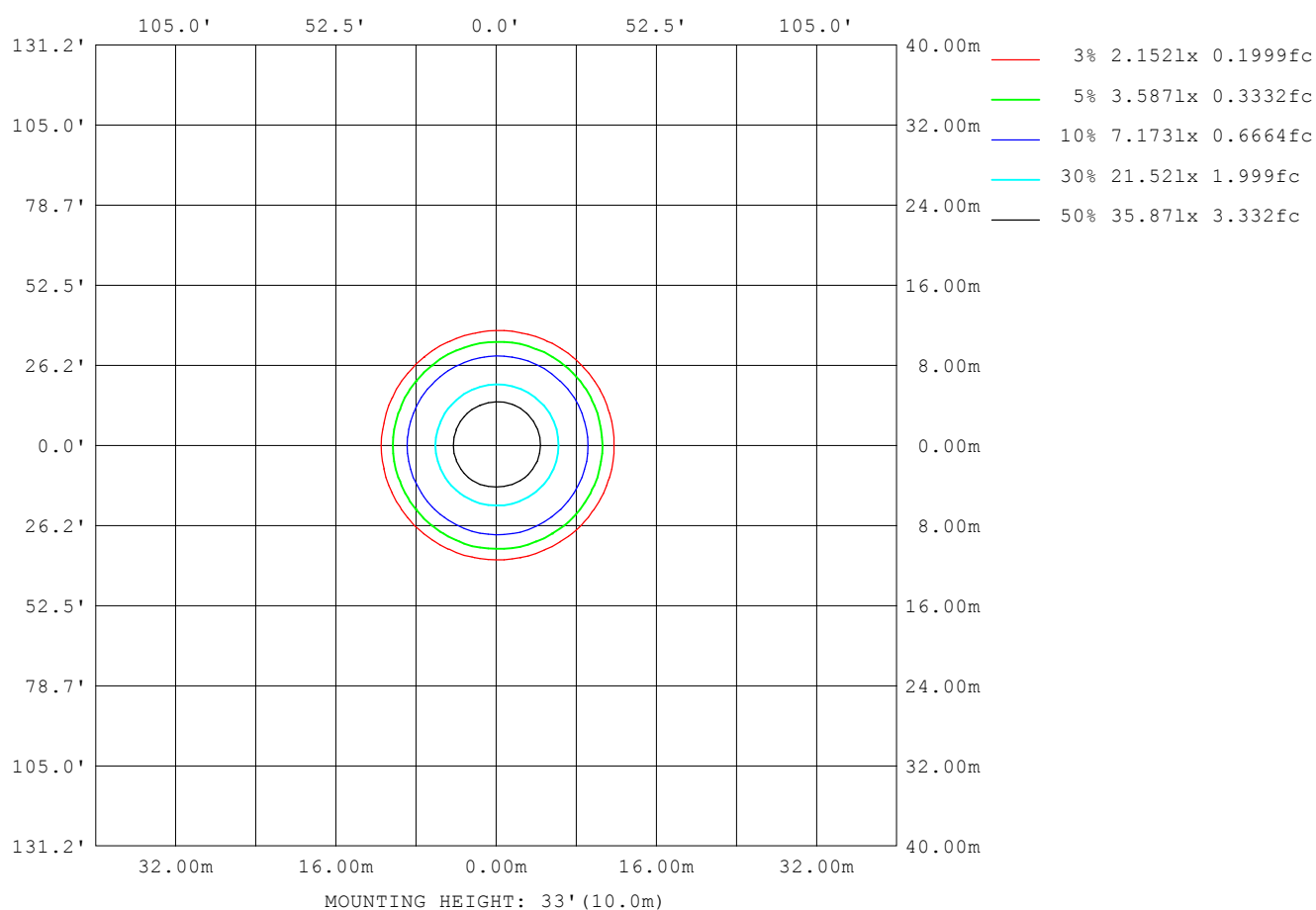
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:12 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:24.300V I:1.9000A P:46.170W PF:1.0000 Freq:0Hz Lamp Flux:7613.35x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-60-X2-CG-*	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:12 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:24.300V I:1.9000A P:46.170W PF:1.0000 Freq:0Hz Lamp Flux:7613.35x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-60-X2-CG-*	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

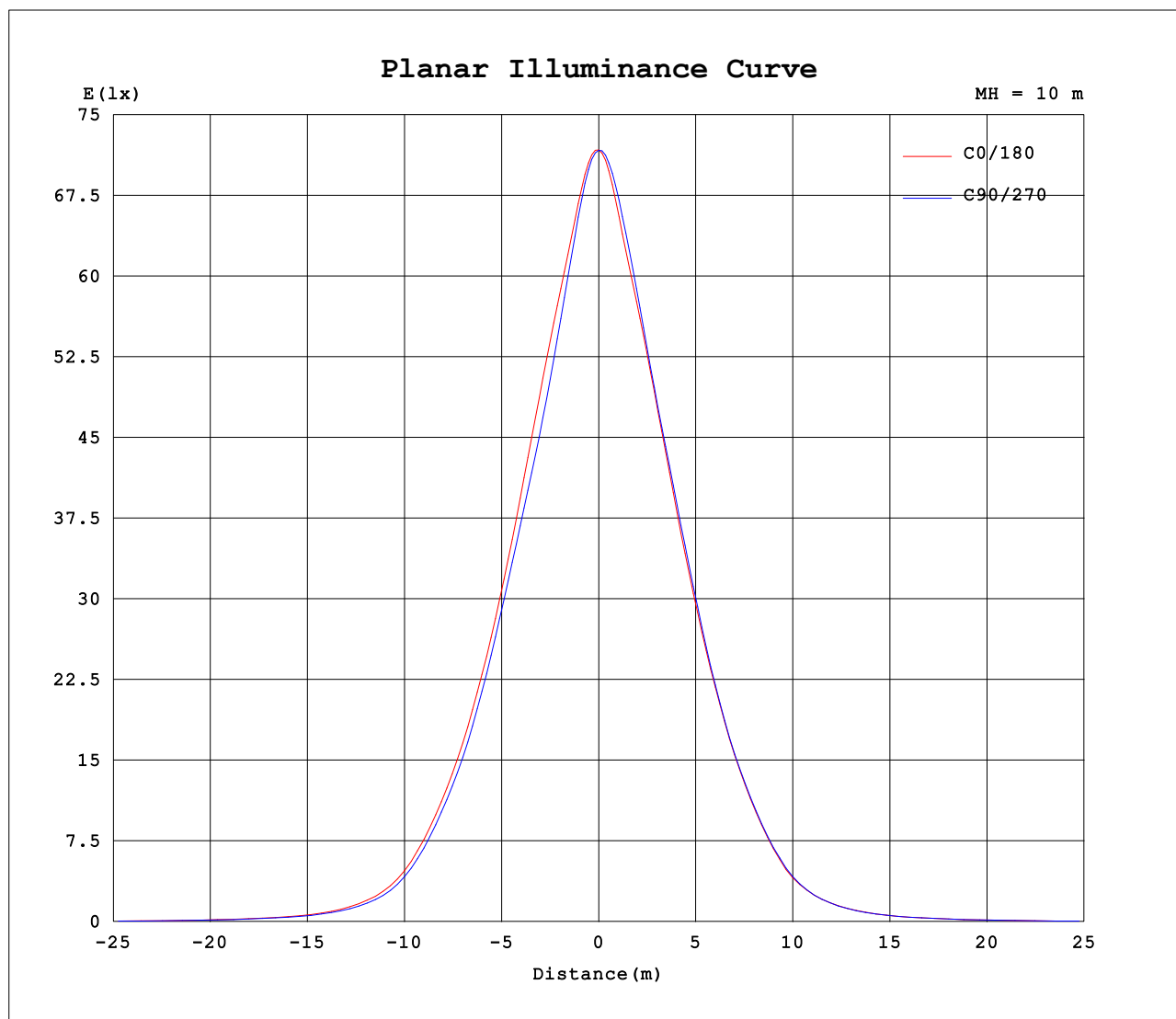
AvgL	cd/m2
L_0~180 (65) av	3958
L_0~180 (75) av	1964
L_0~180 (85) av	368
L_90~270 (65) av	3845
L_90~270 (75) av	1935
L_90~270 (85) av	368
L_45 (65) av	3889
L_45 (75) av	1945
L_45 (85) av	369

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:12 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: 12 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:24.300V I:1.9000A P:46.170W PF:1.0000 Freq:0Hz Lamp Flux:7613.35x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-60-X2-CG-*	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	7173	7173	7173	7173	7173	7173	7173	7173	7173	7173	7173	7173	7173	7173	7173	7173	7173	7173	7173
5	6896	6907	6882	6878	6842	6834	6794	6794	6773	6782	6760	6771	6785	6782	6813	6823	6868	6886	6922
10	6326	6333	6277	6220	6142	6111	6072	6111	6143	6192	6184	6192	6200	6202	6236	6241	6280	6303	6348
15	5805	5784	5708	5625	5492	5425	5397	5462	5525	5605	5633	5659	5664	5647	5684	5680	5681	5671	5713
20	5199	5182	5120	5052	4925	4855	4833	4891	4936	4994	5009	5026	5037	5026	5076	5084	5086	5067	5111
25	4527	4525	4483	4445	4344	4291	4257	4292	4299	4329	4323	4335	4349	4333	4379	4385	4401	4391	4444
30	3799	3796	3745	3712	3632	3601	3552	3564	3552	3576	3570	3595	3614	3585	3609	3590	3609	3604	3658
35	3023	3017	2957	2925	2857	2832	2780	2776	2756	2779	2772	2804	2823	2794	2804	2777	2800	2798	2846
40	2213	2216	2162	2145	2082	2066	2008	2003	1961	1975	1953	1982	2003	1965	1978	1950	1978	1975	2032
45	1345	1348	1315	1301	1251	1228	1185	1173	1143	1145	1134	1147	1161	1139	1147	1132	1147	1145	1186
50	755	754	733	718	683	668	657	654	655	658	662	664	669	664	657	653	646	649	662
55	432	435	422	413	393	388	378	384	381	388	384	388	390	384	384	375	377	374	385
60	266	268	262	259	250	248	244	246	245	247	244	245	246	243	242	238	239	238	244
65	175	177	174	173	168	168	165	165	162	163	159	160	160	157	158	154	157	156	160
70	106	107	106	106	104	103	101	99.9	97.6	96.4	94.4	94.4	94.3	92.4	92.3	91.6	92.2	92.8	95.3
75	55.0	56.5	55.6	56.3	54.5	54.6	52.3	51.7	49.4	48.9	46.8	47.1	46.7	45.1	45.8	44.6	45.5	45.6	47.8
80	21.1	21.9	21.5	22.1	21.2	21.3	19.8	19.3	18.2	17.8	16.8	16.8	16.6	15.6	15.9	15.5	16.0	16.0	17.1
85	4.04	4.40	4.39	4.49	4.11	4.19	3.76	3.56	3.19	3.06	2.68	2.61	2.38	2.12	2.19	2.09	2.28	2.32	2.66
90	0.37	0.35	0.38	0.37	0.35	0.34	0.35	0.29	0.33	0.30	0.31	0.30	0.26	0.26	0.24	0.26	0.24	0.27	0.24
95	0.30	0.29	0.30	0.28	0.29	0.28	0.29	0.28	0.29	0.30	0.29	0.30	0.30	0.28	0.28	0.27	0.28	0.27	0.27
100	0.37	0.37	0.36	0.36	0.36	0.36	0.37	0.38	0.38	0.39	0.40	0.40	0.40	0.38	0.38	0.38	0.38	0.37	0.37
105	0.54	0.53	0.53	0.52	0.52	0.52	0.54	0.55	0.56	0.57	0.58	0.58	0.58	0.57	0.56	0.55	0.54	0.54	0.53
110	0.83	0.80	0.81	0.79	0.80	0.80	0.82	0.83	0.87	0.87	0.91	0.90	0.89	0.88	0.86	0.85	0.82	0.82	0.80
115	1.30	1.26	1.27	1.25	1.27	1.26	1.32	1.32	1.39	1.40	1.45	1.44	1.41	1.41	1.37	1.37	1.31	1.31	1.26
120	2.06	2.00	2.02	1.98	2.03	2.01	2.10	2.11	2.20	2.21	2.30	2.27	2.22	2.23	2.16	2.16	2.07	2.07	2.00
125	3.11	3.06	3.07	3.04	3.09	3.09	3.18	3.22	3.32	3.36	3.43	3.43	3.34	3.33	3.26	3.24	3.15	3.13	3.05
130	4.45	4.40	4.42	4.39	4.45	4.47	4.58	4.62	4.75	4.78	4.87	4.87	4.74	4.73	4.64	4.61	4.50	4.47	4.38
135	6.05	5.99	6.03	6.01	6.10	6.12	6.25	6.30	6.44	6.46	6.56	6.53	6.37	6.37	6.26	6.22	6.10	6.06	5.94
140	7.83	7.76	7.82	7.81	7.94	7.97	8.12	8.16	8.31	8.29	8.38	8.34	8.14	8.14	8.02	7.98	7.86	7.83	7.70
145	9.67	9.63	9.70	9.73	9.90	9.94	10.1	10.1	10.3	10.2	10.3	10.2	9.98	9.96	9.84	9.82	9.74	9.70	9.57
150	11.5	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.1	12.1	12.1	12.0	11.8	11.7	11.6	11.6	11.6	11.6	11.4
155	13.3	13.3	13.4	13.5	13.6	13.7	13.8	13.9	13.9	13.8	13.8	13.7	13.6	13.4	13.4	13.4	13.3	13.4	13.2
160	15.0	15.1	15.2	15.2	15.4	15.4	15.5	15.5	15.6	15.5	15.5	15.4	15.3	15.2	15.1	15.1	15.1	15.1	15.0
165	16.7	16.7	16.8	16.8	16.9	16.9	17.0	17.0	17.0	16.9	17.0	16.9	16.9	16.8	16.7	16.7	16.7	16.7	16.7
170	18.1	18.1	18.1	18.1	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.3	18.2	18.1	18.1	18.1	18.1	18.0
175	19.2	19.2	19.2	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.2	19.3	19.4	19.3	19.1	19.1	19.1	19.1	19.1
180	19.8	19.8	19.7	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.7	19.8	19.8	19.7	19.6	19.6	19.6	19.6

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:YZY  
Test Date:12 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:24.300V I:1.9000A P:46.170W PF:1.0000 Freq:0Hz Lamp Flux:7613.35x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
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MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

Table--2

UNIT: cd

C (DEG) □ (DEG)	285	300	315	330	345														
0	7173	7173	7173	7173	7173														
5	6919	6935	6918	6929	6908														
10	6348	6387	6382	6383	6342														
15	5742	5801	5816	5843	5832														
20	5145	5201	5204	5229	5220														
25	4472	4529	4525	4550	4537														
30	3680	3751	3764	3812	3806														
35	2865	2938	2965	3025	3025														
40	2050	2121	2142	2205	2205														
45	1209	1261	1282	1332	1335														
50	677	714	730	754	755														
55	394	413	421	434	431														
60	248	256	260	266	264														
65	161	166	168	173	173														
70	96.9	99.7	101	104	105														
75	48.2	50.8	51.7	53.8	53.8														
80	17.5	19.1	19.3	20.6	20.5														
85	2.74	3.17	3.23	3.59	3.68														
90	0.25	0.24	0.27	0.24	0.29														
95	0.27	0.27	0.26	0.27	0.26														
100	0.36	0.36	0.36	0.35	0.35														
105	0.53	0.52	0.52	0.51	0.51														
110	0.80	0.78	0.79	0.78	0.78														
115	1.26	1.23	1.24	1.21	1.23														
120	2.01	1.94	1.96	1.92	1.95														
125	3.03	2.97	2.98	2.93	2.96														
130	4.35	4.28	4.28	4.23	4.26														
135	5.93	5.84	5.85	5.78	5.81														
140	7.69	7.58	7.58	7.50	7.53														
145	9.55	9.46	9.43	9.33	9.34														
150	11.4	11.3	11.3	11.2	11.2														
155	13.2	13.1	13.0	13.0	12.9														
160	15.0	14.8	14.8	14.7	14.7														
165	16.6	16.5	16.5	16.4	16.4														
170	18.0	18.0	17.9	17.9	17.9														
175	19.0	19.0	19.0	19.1	19.1														
180	19.6	19.6	19.6	19.6	19.7														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:12 December 2022

□ Range: 0 - 180DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
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