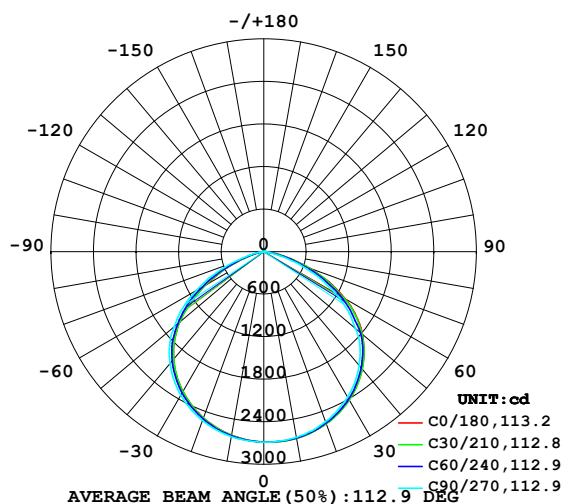


**LUMINAIRE PHOTOMETRIC TEST REPORT**

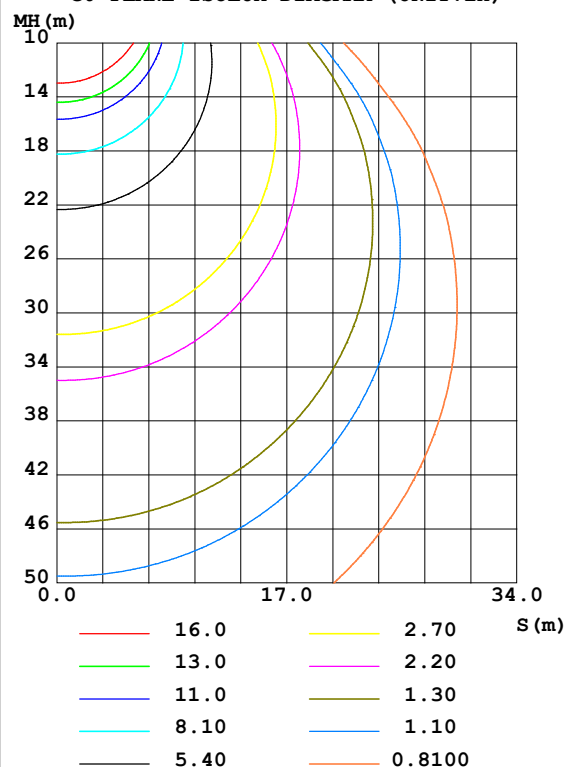
Test:U:24.200V I:1.9500A P:45.190W PF:1.0000 Freq:0Hz Lamp Flux:7388.85x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-110-X2-CG-*	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 163.51 lm/W			
MODEL	N/A	I <sub>max</sub> (cd)	2691	S/MH(C0/180)	1.26
NOMINAL POWER(W)	45	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	7388.9	□ UP,DN(C0-180)	0.2,50.7
NOMINAL FLUX(lm)	7388.85	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.2,48.9
LAMPS INSIDE	1	□ up(%)	0.4	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	□ down(%)	99.6	CIBSE SHR MAX	1.35

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:23 November 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	2673	2672	2658	2639	2629	2632	2649	2664	0- 10	254.8	254.8	3.45,3.45
20	2581	2580	2552	2514	2493	2498	2534	2562	10- 20	736.0	990.8	13.4,13.4
30	2410	2411	2367	2309	2281	2287	2339	2382	20- 30	1131	2122	28.7,28.7
40	2160	2159	2094	2013	1977	1986	2057	2120	30- 40	1389	3512	47.5,47.5
50	1818	1806	1693	1610	1550	1562	1649	1765	40- 50	1458	4970	67.3,67.3
60	1319	1291	1160	1022	954.2	978.6	1102	1223	50- 60	1267	6237	84.4,84.4
70	691.6	661.7	538.8	398.1	353.0	362.2	482.5	629.7	60- 70	808.7	7045	95.4,95.4
80	172.1	158.2	94.73	38.70	25.70	30.84	71.36	126.9	70- 80	286.3	7332	99.2,99.2
90	6.423	5.048	1.190	0.8692	0.7605	0.7299	0.7774	2.735	80- 90	29.88	7362	99.6,99.6
100	1.088	1.107	1.308	1.564	1.663	1.602	1.340	1.102	90-100	1.236	7363	99.6,99.6
110	2.232	2.265	2.599	2.943	3.085	3.009	2.656	2.316	100-110	2.062	7365	99.7,99.7
120	3.732	3.768	4.204	4.510	4.622	4.569	4.265	3.825	110-120	3.369	7368	99.7,99.7
130	5.182	5.263	5.724	5.919	5.934	5.919	5.747	5.286	120-130	4.405	7373	99.8,99.8
140	6.327	6.450	6.835	6.934	6.852	6.868	6.810	6.422	130-140	4.777	7378	99.8,99.8
150	7.172	7.345	7.597	7.670	7.582	7.591	7.560	7.296	140-150	4.447	7382	99.9,99.9
160	7.969	8.105	8.238	8.275	8.312	8.239	8.224	8.047	150-160	3.611	7386	100,100
170	8.812	8.866	8.893	8.922	9.063	8.957	8.941	8.844	160-170	2.410	7388	100,100
180	9.465	9.406	9.392	9.379	9.483	9.401	9.394	9.376	170-180	0.8703	7389	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 4246.2 lm

%lum = 57.5%

%lamp = 57.5%

Conical surface Flux(120deg): 6236.7 lm

%lum = 84.4%

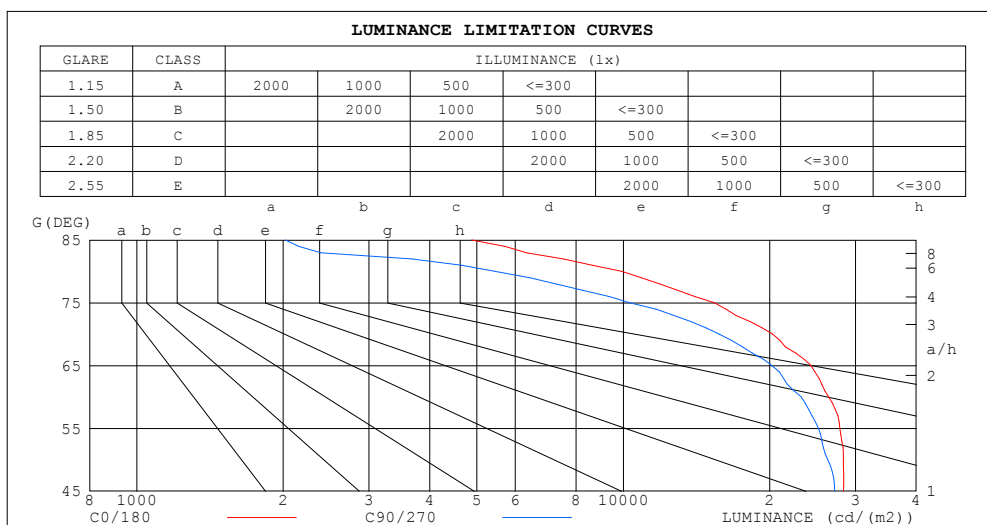
%lamp = 84.4%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:23 November 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:24.200V I:1.9500A P:27.190W PF:1.0000 Freq:0Hz Lamp Flux:7388.85x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-110-X2-CG-*	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	4881	2020
80	9935	5453
75	15397	10301
70	20273	15745
65	24305	20184
60	26445	23184
55	27862	25166
50	28351	26321
45	28357	27194

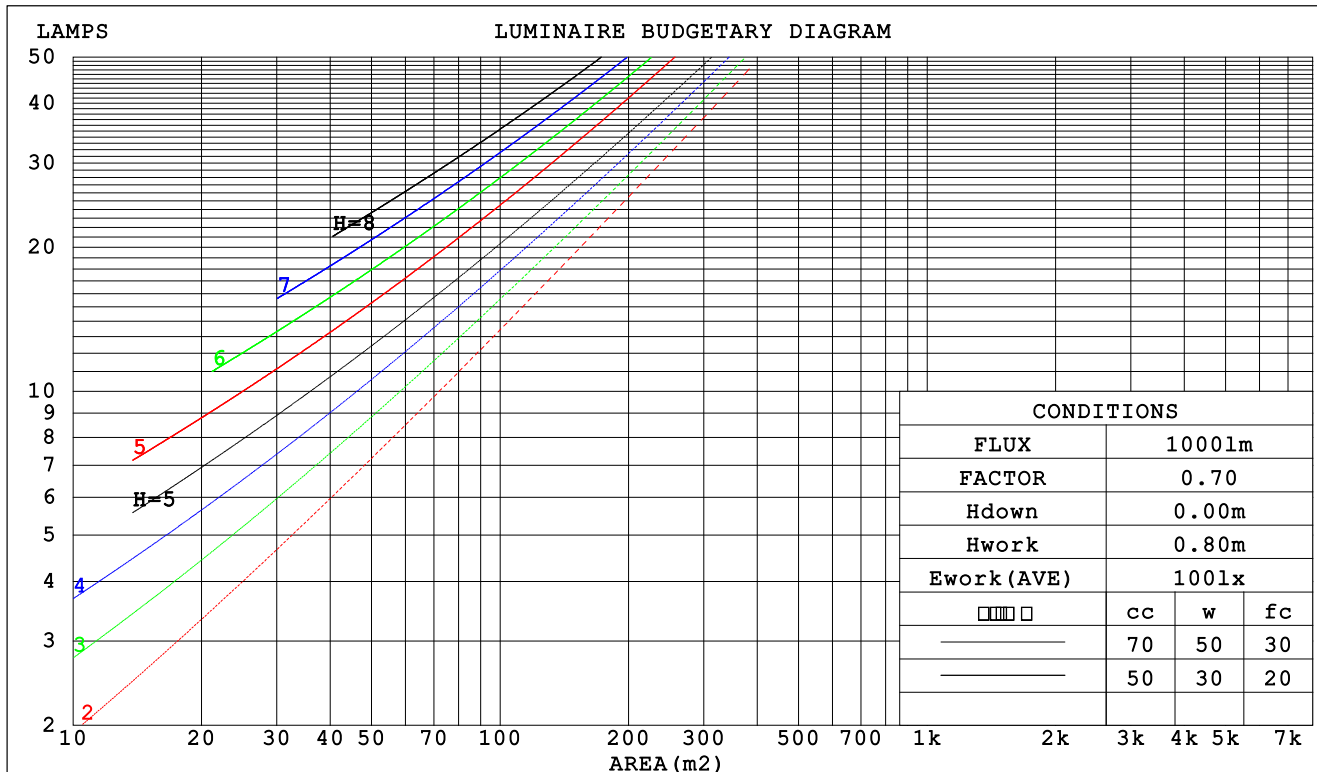
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:YZY  
Test Date:23 November 2022

☐ 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:24.200V I:1.9500A P:27.190W PF:1.0000 Freq:0Hz Lamp Flux:7388.85x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-110-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	1.06	1.02	.98	1.03	.90	.97	.99	.96	.93	.95	.93	.91	.91	.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	.74	.69	.65	.72	.67	.64	.62
4.0	.73	.64	.58	.71	.63	.57	.69	.62	.57	.66	.60	.56	.64	.59	.55	.53
5.0	.65	.56	.50	.64	.56	.50	.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	.51	.43	.38	.49	.43	.38	.48	.42	.37	.35
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.38	.34	.44	.38	.33	.31
9.0	.44	.36	.31	.44	.36	.31	.43	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.37	.32	.27	.26



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:23 November 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:24.200V I:1.9500A P:27.190W PF:1.0000 Freq:0Hz Lamp Flux:7388.85x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-110-X2-CG-*	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

<input type="checkbox"/> cc	80%	70%	50%	30%	10%	0
<input type="checkbox"/> w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
<input type="checkbox"/> fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients (WEC)					
0.0						
1.0	.277 .157 .050	.269 .154 .049	.256 .147 .047	.244 .141 .045	.233 .135 .043	
2.0	.269 .147 .045	.263 .145 .045	.251 .140 .043	.240 .135 .042	.230 .130 .041	
3.0	.254 .135 .040	.248 .133 .040	.238 .129 .039	.228 .125 .038	.220 .122 .038	
4.0	.237 .123 .036	.233 .122 .036	.223 .118 .035	.215 .115 .035	.207 .112 .034	
5.0	.222 .113 .033	.217 .112 .032	.209 .109 .032	.202 .106 .032	.194 .104 .031	
6.0	.207 .104 .030	.203 .103 .030	.196 .100 .029	.189 .098 .029	.183 .096 .029	
7.0	.194 .096 .027	.190 .095 .027	.184 .093 .027	.178 .091 .026	.172 .089 .026	
8.0	.182 .089 .025	.179 .088 .025	.173 .086 .025	.167 .085 .024	.162 .083 .024	
9.0	.171 .083 .023	.168 .082 .023	.163 .080 .023	.158 .079 .023	.153 .078 .022	
10.0	.161 .077 .021	.158 .077 .021	.154 .075 .021	.149 .074 .021	.145 .073 .021	

<input type="checkbox"/> cc	80%	70%	50%	30%	10%	0
<input type="checkbox"/> w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
<input type="checkbox"/> 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	.181 .159 .140	.155 .137 .120	.106 .094 .083	.061 .054 .048	.020 .018 .016	
2.0	.172 .135 .104	.147 .116 .090	.101 .080 .062	.058 .047 .037	.019 .015 .012	
3.0	.164 .117 .079	.141 .101 .069	.097 .070 .048	.056 .041 .028	.018 .013 .009	
4.0	.157 .104 .063	.135 .090 .055	.093 .062 .039	.054 .037 .023	.017 .012 .007	
5.0	.150 .093 .051	.129 .081 .045	.089 .056 .032	.051 .033 .019	.017 .011 .006	
6.0	.143 .085 .043	.123 .073 .037	.085 .051 .026	.049 .030 .016	.016 .010 .005	
7.0	.136 .078 .037	.117 .067 .032	.081 .047 .023	.047 .028 .014	.015 .009 .004	
8.0	.130 .072 .032	.112 .062 .028	.078 .044 .020	.045 .026 .012	.015 .008 .004	
9.0	.124 .067 .028	.107 .058 .025	.074 .041 .018	.043 .024 .011	.014 .008 .003	
10.0	.119 .063 .026	.102 .055 .022	.071 .038 .016	.041 .023 .009	.013 .007 .003	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:23 November 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:24.200V I:1.9500A P:27.190W PF:1.0000 Freq:0Hz Lamp Flux:7388.85x1 lm										
NAME: Round X2 Series DC					TYPE:Floodlight			WEIGHT:N/A		
SPEC.:RND-45-24-5K-110-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	17.9	19.4	18.2	19.6	19.8	17.5	19.0	17.8	19.2	19.4
3H	19.1	20.5	19.4	20.7	21.0	18.5	19.8	18.8	20.1	20.3
4H	19.5	20.7	19.8	21.0	21.3	18.7	20.0	19.0	20.2	20.5
6H	19.6	20.8	19.9	21.0	21.3	18.7	19.9	19.0	20.2	20.4
8H	19.6	20.7	19.9	21.0	21.3	18.7	19.8	19.0	20.1	20.4
12H	19.5	20.6	19.9	20.9	21.2	18.6	19.7	19.0	20.0	20.3
4H 2H	18.4	19.7	18.7	20.0	20.2	18.1	19.4	18.4	19.6	19.9
3H	19.8	20.9	20.1	21.2	21.5	19.2	20.3	19.6	20.6	20.9
4H	20.2	21.2	20.6	21.5	21.8	19.5	20.5	19.9	20.8	21.2
6H	20.4	21.2	20.8	21.6	22.0	19.5	20.4	19.9	20.8	21.2
8H	20.4	21.2	20.8	21.6	21.9	19.5	20.3	19.9	20.7	21.1
12H	20.3	21.1	20.8	21.5	21.9	19.5	20.2	19.9	20.6	21.0
8H 4H	20.2	21.1	20.7	21.4	21.8	19.6	20.4	20.0	20.8	21.2
6H	20.5	21.2	20.9	21.6	22.0	19.7	20.4	20.2	20.8	21.2
8H	20.5	21.1	21.0	21.5	22.0	19.7	20.3	20.2	20.7	21.2
12H	20.5	21.0	21.0	21.5	22.0	19.7	20.2	20.2	20.7	21.1
12H 4H	20.2	21.0	20.6	21.4	21.8	19.6	20.3	20.0	20.7	21.1
6H	20.5	21.1	20.9	21.5	22.0	19.7	20.3	20.2	20.7	21.2
8H	20.5	21.0	21.0	21.5	22.0	19.7	20.2	20.2	20.7	21.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.3 / - 0.4					+ 0.3 / - 0.6				
2.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.6				

 CIE Pub.117, 7389 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 6.9$ )

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:23 November 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:24.200V I:1.9500A P:27.190W PF:1.0000 Freq:0Hz Lamp Flux:7388.85x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-110-X2-CG-*	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

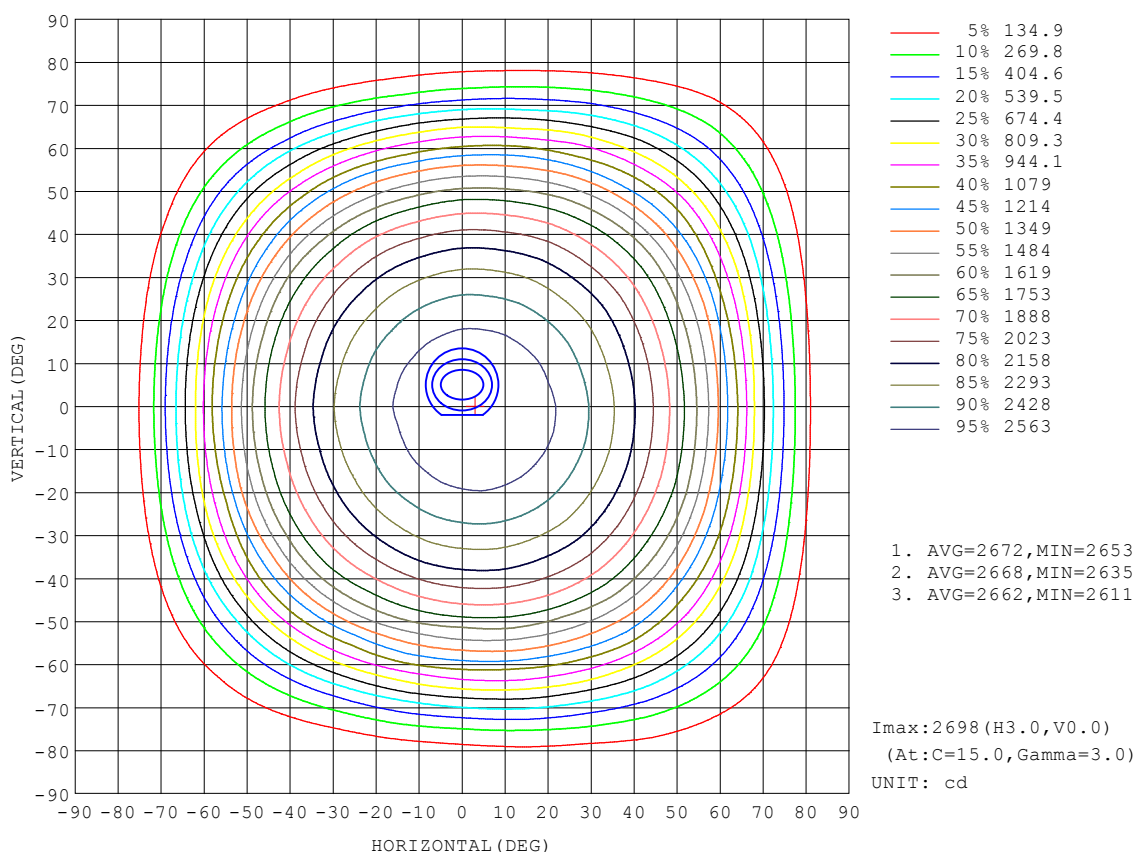
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	47	40	58	47	40	57	47	40	34
0.80	69	58	51	68	58	51	66	57	50	44
1.00	78	67	60	77	67	60	75	68	60	53
1.25	85	75	69	84	75	68	81	73	67	60
1.50	90	81	75	89	80	74	86	78	73	66
2.00	97	89	83	95	88	82	92	86	81	73
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	85
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					SHR NOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:23 November 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:24.200V I:1.9500A P:27.190W PF:1.0000 Freq:0Hz Lamp Flux:7388.85x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-110-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:23 November 2022

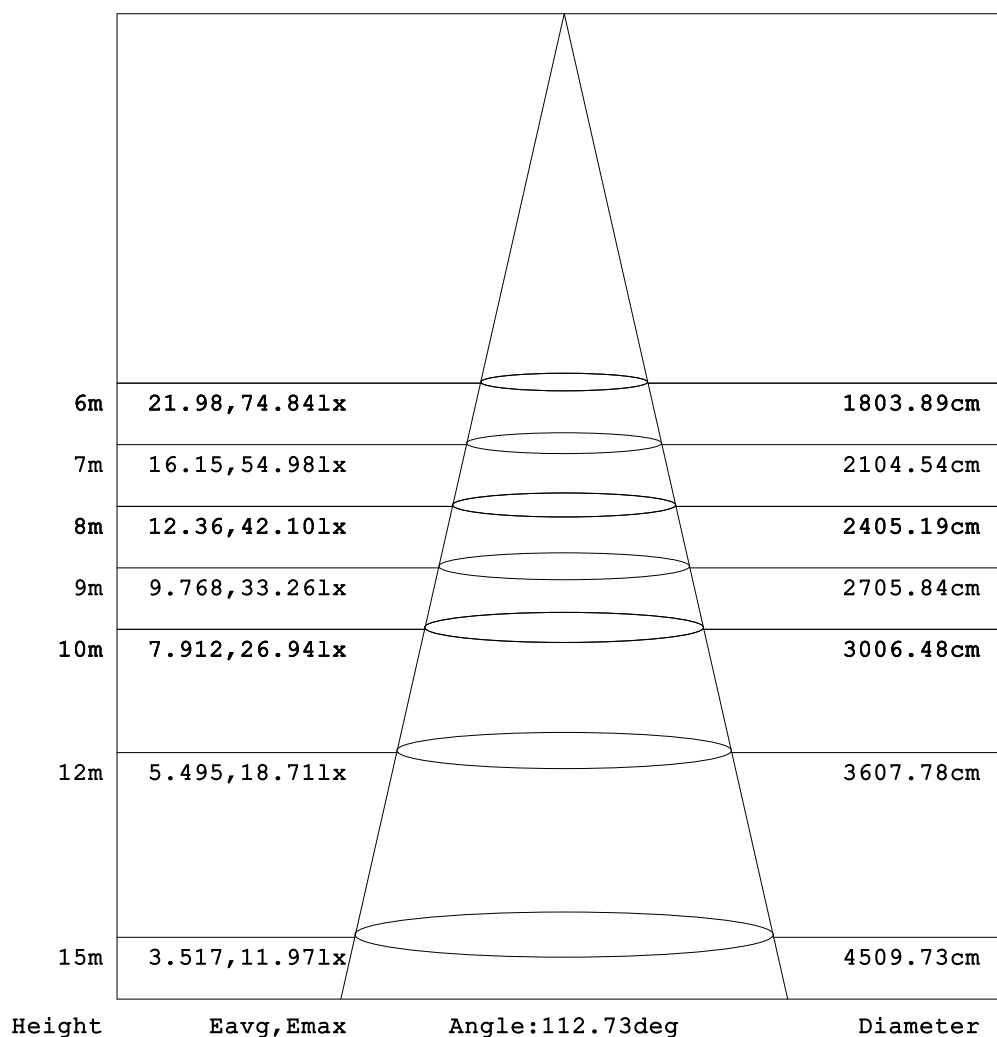
☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:6.010m [K=1.0000]  
 Remarks:



### AAI Figure

Test:U:24.200V I:1.9500A P:27.190W PF:1.0000 Freq:0Hz Lamp Flux:7388.85x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-110-X2-CG-*	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

Flux out:5894 lm



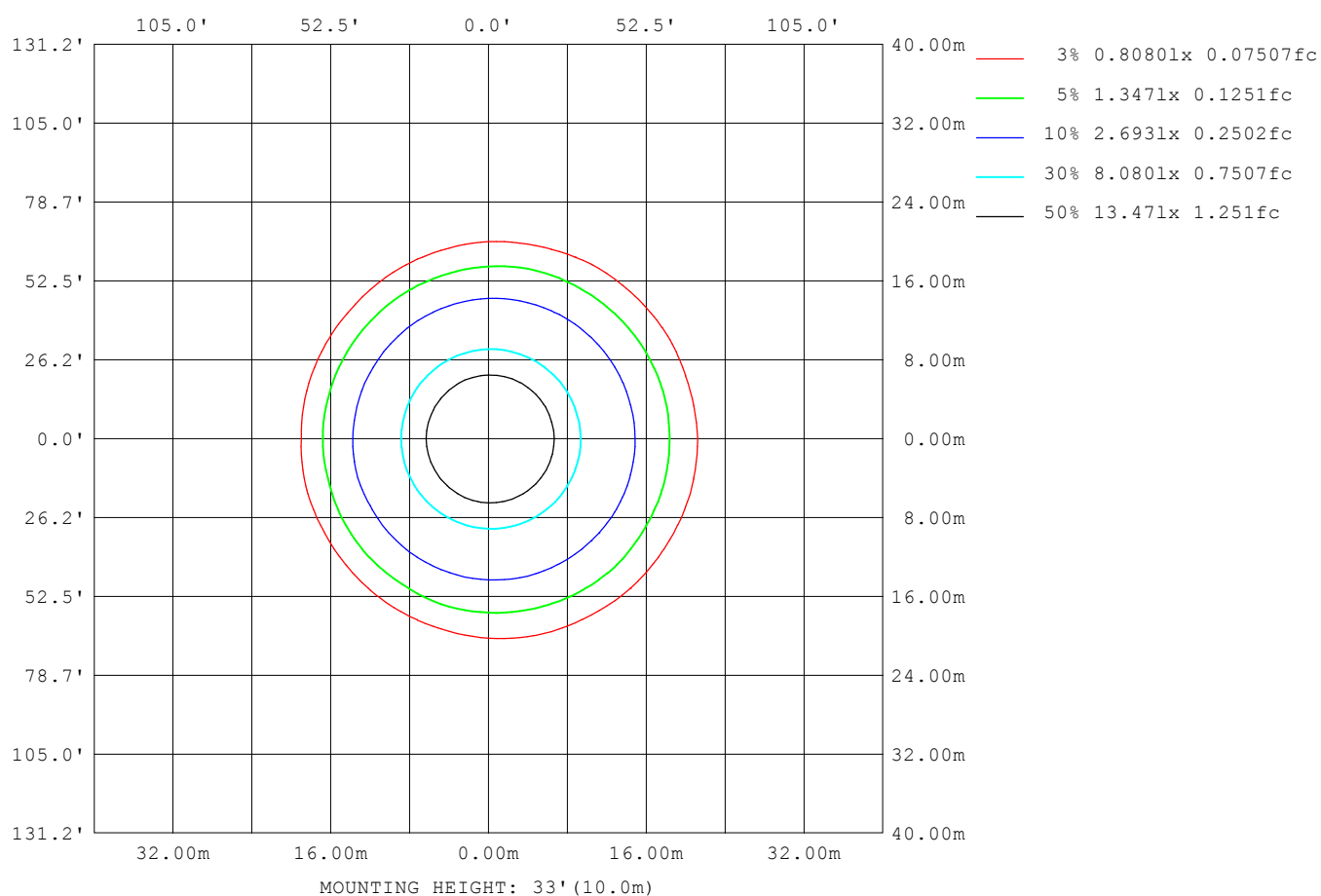
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:23 November 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:24.200V I:1.9500A P:27.190W PF:1.0000 Freq:0Hz Lamp Flux:7388.85x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-110-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:23 November 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:24.200V I:1.9500A P:27.190W PF:1.0000 Freq:0Hz Lamp Flux:7388.85x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-110-X2-CG-*	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

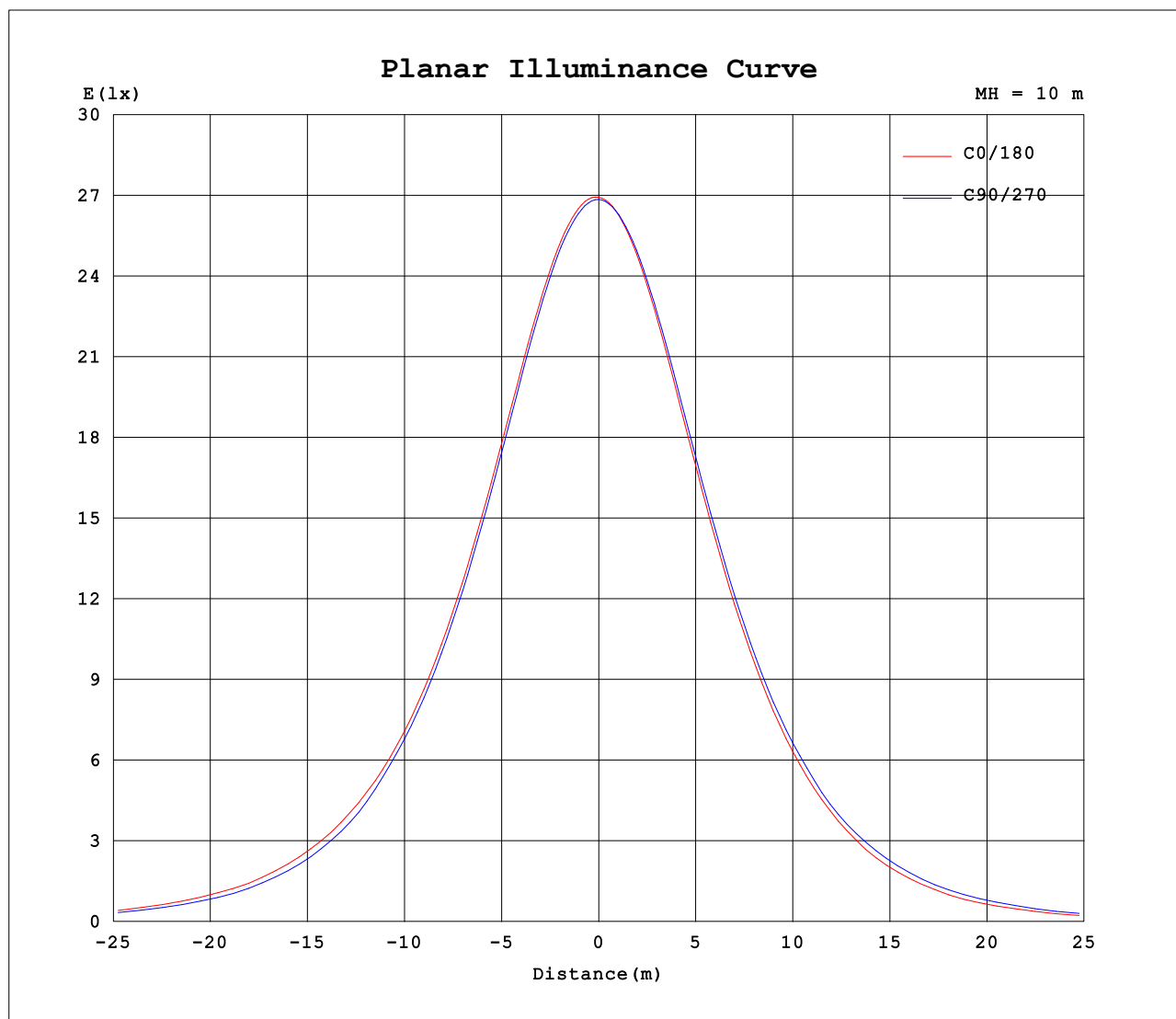
AvgL	cd/m2
L_0~180 (65) av	19691
L_0~180 (75) av	10370
L_0~180 (85) av	2645
L_90~270 (65) av	19574
L_90~270 (75) av	9525
L_90~270 (85) av	1848
L_45 (65) av	19317
L_45 (75) av	10083
L_45 (85) av	1923

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:23 November 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: 23 November 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:24.200V I:1.9500A P:27.190W PF:1.0000 Freq:0Hz Lamp Flux:7388.85x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-110-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	2687	2687	2687	2687	2687	2687	2687	2687	2687	2687	2687	2687	2687	2687	2687	2687	2687	2687	2687
5	2689	2690	2688	2688	2684	2683	2680	2678	2675	2673	2670	2668	2667	2667	2668	2669	2671	2673	2676
10	2673	2674	2672	2672	2668	2665	2658	2652	2644	2639	2633	2630	2629	2627	2630	2632	2637	2642	2649
15	2637	2640	2637	2636	2630	2625	2616	2607	2595	2587	2578	2574	2572	2569	2572	2576	2584	2591	2601
20	2581	2586	2582	2580	2572	2566	2552	2540	2525	2514	2502	2496	2493	2491	2495	2498	2509	2520	2534
25	2505	2511	2509	2505	2495	2486	2468	2454	2436	2423	2408	2401	2396	2393	2398	2402	2416	2430	2446
30	2410	2417	2415	2411	2399	2386	2367	2349	2326	2309	2292	2286	2281	2274	2281	2287	2303	2319	2339
35	2297	2303	2300	2297	2279	2267	2243	2224	2194	2172	2154	2144	2142	2134	2142	2150	2169	2185	2209
40	2160	2167	2163	2159	2138	2125	2094	2068	2034	2013	1992	1980	1977	1968	1977	1986	2010	2027	2057
45	2000	2005	2001	1995	1976	1956	1924	1891	1853	1832	1805	1792	1786	1779	1787	1795	1828	1846	1882
50	1818	1825	1812	1806	1780	1747	1693	1671	1635	1610	1576	1560	1550	1540	1552	1562	1584	1607	1649
55	1594	1604	1585	1559	1519	1490	1444	1394	1353	1311	1276	1284	1255	1244	1252	1289	1324	1357	1402
60	1319	1322	1298	1291	1245	1210	1160	1118	1044	1022	987	960	954	948	961	979	1005	1045	1102
65	1025	1025	998	976	943	910	853	794	743	699	658	641	640	634	652	659	693	735	801
70	692	703	691	662	622	597	539	486	435	398	358	356	353	347	355	362	382	425	483
75	397	397	389	375	344	311	267	239	199	182	151	145	139	128	144	151	176	193	226
80	172	178	159	158	131	121	94.7	69.8	53.0	38.7	30.5	27.9	25.7	25.2	27.9	30.8	41.2	55.7	71.4
85	42.4	37.6	33.0	30.1	25.1	22.0	17.6	14.2	9.83	7.49	5.23	4.53	3.67	3.36	4.29	5.22	7.75	10.1	14.6
90	6.42	6.82	5.91	5.05	3.26	1.93	1.19	0.97	0.91	0.87	0.87	0.87	0.76	0.75	0.74	0.73	0.71	0.72	0.78
95	0.89	0.86	0.88	0.86	0.86	0.87	0.91	0.96	1.02	1.07	1.14	1.16	1.11	1.13	1.09	1.07	1.01	0.96	0.88
100	1.09	1.07	1.09	1.11	1.16	1.21	1.31	1.38	1.49	1.56	1.66	1.69	1.66	1.68	1.63	1.60	1.51	1.45	1.34
105	1.58	1.56	1.59	1.62	1.70	1.77	1.90	1.99	2.13	2.20	2.32	2.36	2.33	2.36	2.30	2.26	2.16	2.08	1.94
110	2.23	2.19	2.24	2.27	2.36	2.45	2.60	2.70	2.86	2.94	3.07	3.12	3.09	3.11	3.04	3.01	2.89	2.81	2.66
115	2.96	2.92	2.97	3.00	3.11	3.21	3.38	3.49	3.64	3.72	3.85	3.90	3.86	3.89	3.83	3.79	3.68	3.61	3.45
120	3.73	3.69	3.74	3.77	3.90	4.02	4.20	4.31	4.45	4.51	4.62	4.66	4.62	4.65	4.59	4.57	4.47	4.41	4.26
125	4.49	4.44	4.49	4.54	4.68	4.81	5.00	5.10	5.21	5.26	5.34	5.37	5.32	5.34	5.30	5.29	5.22	5.18	5.05
130	5.18	5.15	5.20	5.26	5.41	5.55	5.72	5.81	5.90	5.92	5.97	5.99	5.93	5.95	5.92	5.92	5.88	5.86	5.75
135	5.80	5.77	5.82	5.91	6.06	6.19	6.34	6.43	6.49	6.48	6.50	6.51	6.44	6.44	6.43	6.44	6.43	6.42	6.33
140	6.33	6.30	6.36	6.45	6.60	6.72	6.83	6.91	6.97	6.93	6.92	6.93	6.85	6.86	6.85	6.87	6.88	6.88	6.81
145	6.77	6.77	6.84	6.93	7.05	7.16	7.25	7.32	7.35	7.33	7.29	7.28	7.22	7.22	7.22	7.25	7.28	7.28	7.21
150	7.17	7.20	7.27	7.34	7.45	7.53	7.60	7.66	7.68	7.67	7.64	7.61	7.58	7.55	7.56	7.59	7.62	7.62	7.56
155	7.57	7.61	7.67	7.73	7.81	7.87	7.92	7.98	7.98	7.97	7.95	7.94	7.94	7.89	7.89	7.91	7.93	7.94	7.89
160	7.97	8.02	8.06	8.10	8.15	8.20	8.24	8.29	8.29	8.28	8.27	8.27	8.31	8.25	8.23	8.24	8.25	8.26	8.22
165	8.39	8.44	8.45	8.48	8.51	8.55	8.57	8.61	8.60	8.60	8.60	8.62	8.70	8.63	8.60	8.60	8.60	8.61	8.59
170	8.81	8.84	8.85	8.87	8.85	8.88	8.89	8.92	8.91	8.92	8.93	8.96	9.06	9.01	8.97	8.96	8.96	8.96	8.94
175	9.20	9.22	9.21	9.20	9.17	9.19	9.19	9.21	9.20	9.21	9.22	9.28	9.36	9.33	9.28	9.26	9.26	9.24	9.23
180	9.46	9.47	9.42	9.41	9.39	9.40	9.39	9.39	9.38	9.38	9.37	9.42	9.48	9.47	9.43	9.40	9.40	9.40	9.39

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:YZY  
Test Date:23 November 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:24.200V I:1.9500A P:27.190W PF:1.0000 Freq:0Hz Lamp Flux:7388.85x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-45-24-5K-110-X2-CG-*	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	2687	2687	2687	2687	2687														
5	2679	2681	2683	2686	2688														
10	2654	2660	2664	2669	2672														
15	2608	2618	2623	2631	2635														
20	2542	2553	2562	2573	2577														
25	2456	2471	2482	2496	2501														
30	2352	2371	2382	2398	2405														
35	2226	2249	2261	2283	2290														
40	2074	2104	2120	2145	2152														
45	1905	1938	1955	1981	1992														
50	1684	1732	1765	1792	1804														
55	1437	1486	1530	1562	1580														
60	1164	1198	1223	1273	1319														
65	826	903	930	980	991														
70	511	583	630	659	681														
75	262	298	336	369	382														
80	89.0	108	127	151	156														
85	17.7	21.7	24.2	28.7	30.8														
90	0.86	1.51	2.73	4.45	5.29														
95	0.83	0.77	0.74	0.70	0.71														
100	1.26	1.16	1.10	1.04	1.02														
105	1.85	1.72	1.65	1.56	1.54														
110	2.55	2.39	2.32	2.21	2.18														
115	3.32	3.14	3.05	2.94	2.90														
120	4.13	3.93	3.83	3.70	3.66														
125	4.91	4.70	4.58	4.44	4.40														
130	5.62	5.42	5.29	5.14	5.09														
135	6.22	6.04	5.90	5.75	5.69														
140	6.72	6.57	6.42	6.28	6.21														
145	7.13	7.02	6.88	6.75	6.67														
150	7.49	7.41	7.30	7.18	7.10														
155	7.83	7.77	7.68	7.59	7.52														
160	8.17	8.11	8.05	7.99	7.95														
165	8.55	8.50	8.44	8.41	8.38														
170	8.91	8.88	8.84	8.82	8.80														
175	9.21	9.20	9.17	9.19	9.18														
180	9.38	9.39	9.38	9.38	9.42														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date:23 November 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: