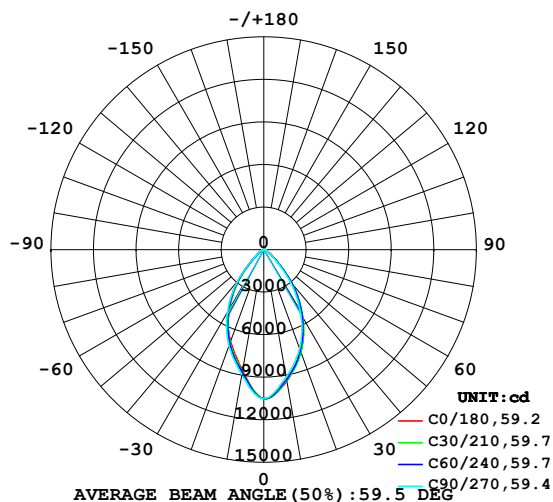


**LUMINAIRE PHOTOMETRIC TEST REPORT**

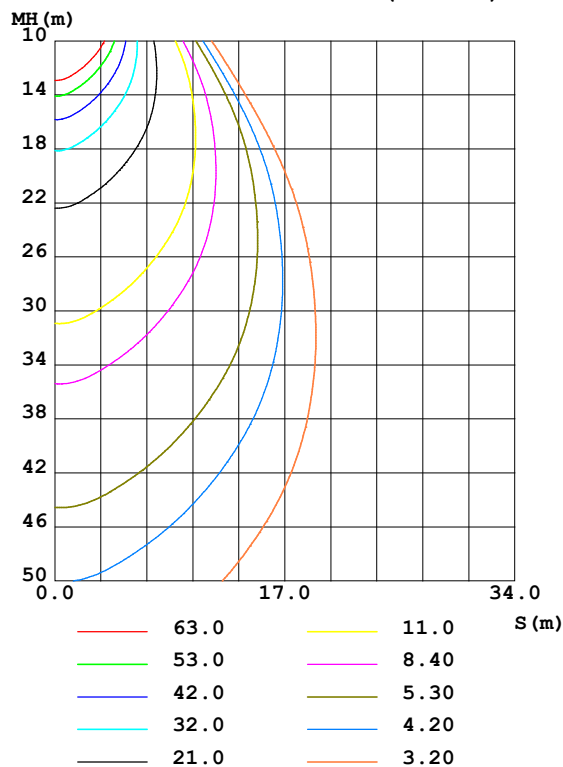
Test:U:24.300V I:2.6800A P:65.124W PF:1.0000 Freq:0Hz Lamp Flux:10761.7x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-65-24-5K-60-X2-CG-*	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 165.25 lm/W			
MODEL	N/A	I <sub>max</sub> (cd)	10523	S/MH(C0/180)	0.80
NOMINAL POWER(W)	65	LOR(%)	100.0	S/MH(C90/270)	0.84
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	10762	□ UP,DN(C0-180)	0.2,50.3
NOMINAL FLUX(lm)	10761.7	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.2,49.3
LAMPS INSIDE	1	□ up(%)	0.4	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	24	□ down(%)	99.6	CIBSE SHR MAX	0.95

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	939.3	932.2	911.9	869.8	868.1	874.8	894.2	921.8	0- 10	919.6	919.6	8.55,8.55
20	765.7	765.8	740.1	688.5	688.7	697.1	720.7	736.7	10- 20	2279	3198	29.7,29.7
30	547.6	553.6	522.3	488.7	488.7	494.9	515.4	530.2	20- 30	2865	6063	56.3,56.3
40	306.5	314.8	285.6	262.8	263.7	268.6	287.0	298.3	30- 40	2499	8562	79.6,79.6
50	104.9	109.2	94.86	80.94	81.57	85.42	93.44	97.41	40- 50	1334	9896	92,92
60	37.46	38.37	34.67	31.46	31.55	32.50	34.70	35.51	50- 60	512.7	10409	96.7,96.7
70	14.40	14.62	13.18	12.37	12.46	12.74	13.89	14.27	60- 70	227.7	10637	98.8,98.8
80	2.814	2.830	2.445	2.217	2.312	2.357	2.719	2.900	70- 80	76.48	10713	99.5,99.5
90	0.0473	0.0434	0.0430	0.0386	0.0346	0.0362	0.0346	0.0390	80- 90	8.257	10721	99.6,99.6
100	0.0501	0.0492	0.0522	0.0531	0.0543	0.0530	0.0488	0.0465	90-100	0.4336	10722	99.6,99.6
110	0.1054	0.1059	0.1160	0.1190	0.1225	0.1245	0.1106	0.1003	100-110	0.8064	10723	99.6,99.6
120	0.2658	0.2703	0.2936	0.3062	0.3081	0.3143	0.2834	0.2551	110-120	1.841	10724	99.7,99.7
130	0.5909	0.5996	0.6442	0.6651	0.6664	0.6790	0.6261	0.5722	120-130	3.951	10728	99.7,99.7
140	1.054	1.072	1.137	1.168	1.169	1.182	1.119	1.034	130-140	6.643	10735	99.8,99.8
150	1.573	1.609	1.688	1.722	1.710	1.730	1.664	1.570	140-150	8.647	10744	99.8,99.8
160	2.100	2.129	2.194	2.224	2.228	2.221	2.167	2.097	150-160	8.795	10752	99.9,99.9
170	2.574	2.572	2.595	2.609	2.655	2.618	2.589	2.555	160-170	6.716	10759	100,100
180	2.848	2.819	2.808	2.802	2.852	2.820	2.809	2.802	170-180	2.569	10762	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 9389.1 lm

%lum = 87.2%

%lamp = 87.2%

Conical surface Flux(120deg): 10409 lm

%lum = 96.7%

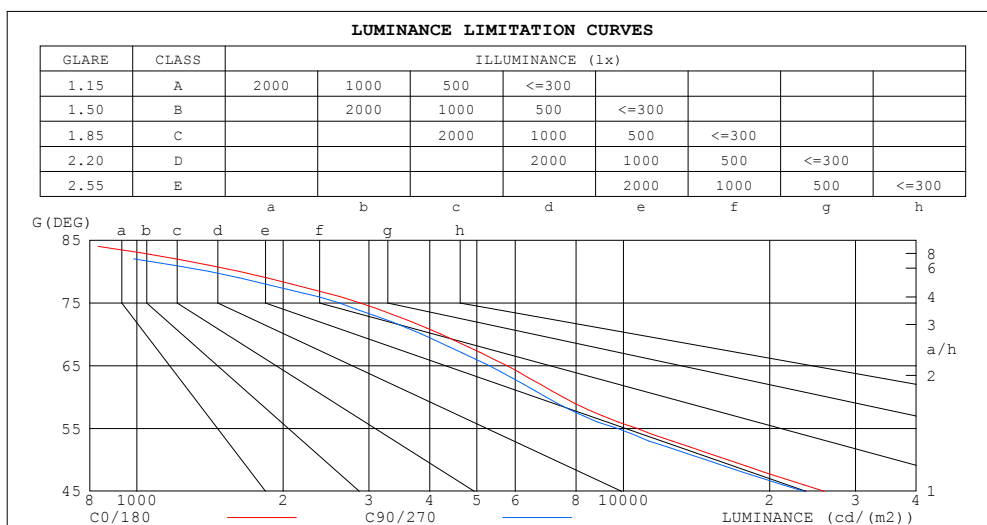
%lamp = 96.7%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YZY  
 Test Date: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:2.6800A P:65.124W PF:1.0000 Freq:0Hz Lamp Flux:10761.7x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-65-24-5K-60-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	655	449
80	1623	1407
75	2869	2603
70	4217	3851
65	5753	5299
60	7503	6929
55	10652	9701
50	16346	14747
45	25884	23520

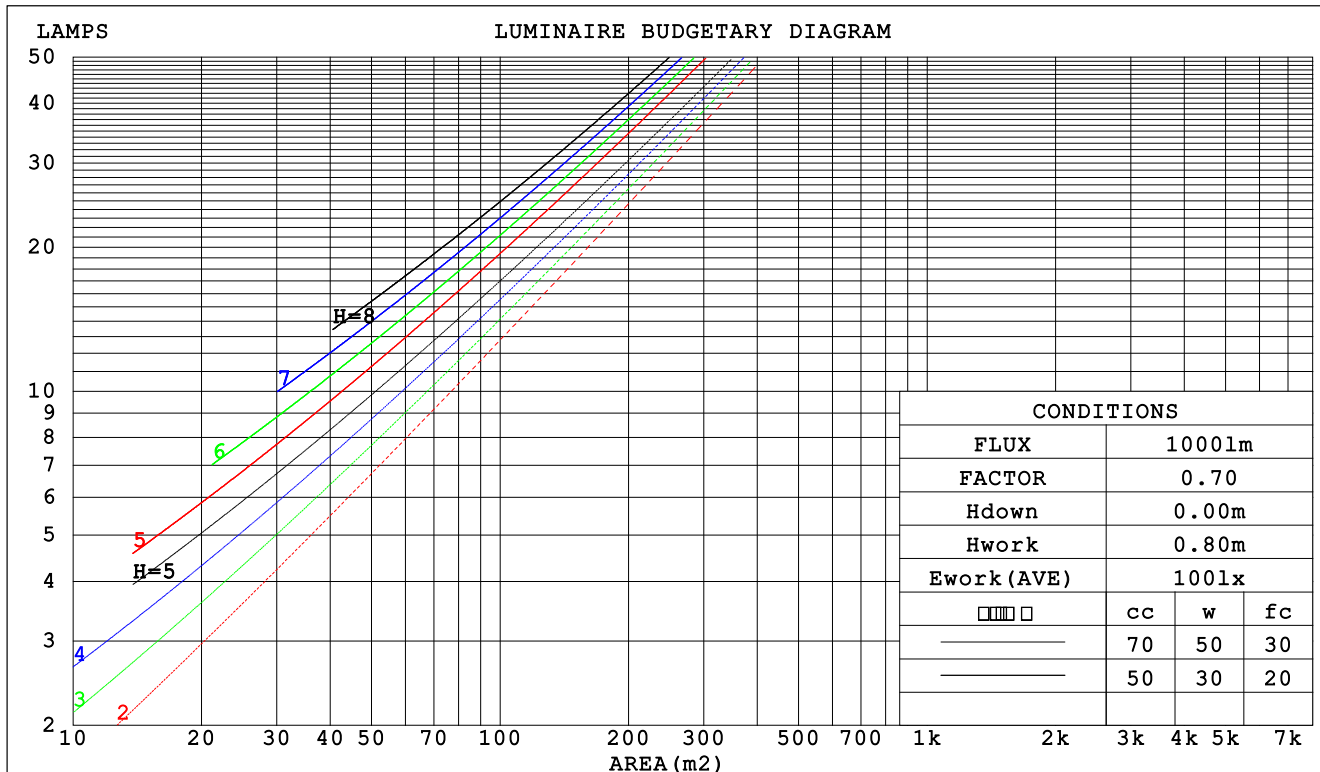
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:YZY  
Test Date:12 December 2022

☐ 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:2.6800A P:65.124W PF:1.0000 Freq:0Hz Lamp Flux:10761.7x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-65-24-5K-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	.99	.94	.91	.95	.92	.89	.92	.89	.87	.89	.87	.85	.83
3.0	.92	.87	.82	.91	.86	.81	.88	.84	.80	.86	.82	.79	.83	.80	.77	.76
4.0	.85	.79	.74	.84	.78	.74	.82	.77	.73	.79	.75	.72	.77	.74	.71	.69
5.0	.79	.72	.67	.78	.71	.67	.76	.70	.66	.74	.69	.66	.72	.68	.65	.63
6.0	.73	.66	.61	.72	.66	.61	.71	.65	.61	.69	.64	.60	.68	.63	.60	.58
7.0	.68	.61	.56	.67	.61	.56	.66	.60	.56	.65	.59	.56	.63	.59	.55	.54
8.0	.63	.57	.52	.63	.56	.52	.62	.56	.52	.61	.55	.52	.59	.55	.51	.50
9.0	.59	.53	.48	.59	.53	.48	.58	.52	.48	.57	.52	.48	.56	.51	.48	.46
10.0	.56	.49	.45	.55	.49	.45	.54	.49	.45	.54	.48	.45	.53	.48	.45	.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:2.6800A P:65.124W PF:1.0000 Freq:0Hz Lamp Flux:10761.7x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-65-24-5K-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	.202 .115 .036	.195 .111 .035	.182 .104 .033	.170 .098 .031	.159 .092 .030	
2.0	.195 .107 .033	.190 .104 .032	.179 .099 .031	.168 .094 .030	.159 .090 .028	
3.0	.187 .099 .030	.181 .097 .029	.172 .093 .028	.163 .089 .027	.155 .086 .027	
4.0	.177 .092 .027	.173 .091 .027	.165 .087 .026	.157 .084 .025	.150 .081 .025	
5.0	.168 .086 .025	.165 .084 .025	.157 .082 .024	.150 .079 .024	.144 .077 .023	
6.0	.160 .080 .023	.157 .079 .023	.150 .077 .022	.144 .075 .022	.138 .073 .022	
7.0	.152 .075 .021	.149 .074 .021	.143 .072 .021	.138 .071 .021	.133 .069 .020	
8.0	.145 .071 .020	.142 .070 .020	.137 .068 .020	.132 .067 .019	.128 .065 .019	
9.0	.138 .067 .019	.136 .066 .019	.131 .065 .018	.127 .063 .018	.123 .062 .018	
10.0	.132 .063 .018	.130 .063 .017	.125 .061 .017	.121 .060 .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 .113	.139 .116 .097	.095 .081 .068	.055 .047 .040	.018 .015 .013	
3.0	.151 .117 .089	.130 .101 .077	.089 .070 .054	.051 .041 .032	.017 .013 .010	
4.0	.142 .102 .072	.122 .088 .063	.084 .062 .044	.048 .036 .026	.016 .012 .009	
5.0	.134 .091 .059	.115 .079 .052	.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 .043	.104 .065 .037	.072 .045 .026	.042 .027 .016	.013 .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: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:2.6800A P:65.124W PF:1.0000 Freq:0Hz Lamp Flux:10761.7x1 lm										
NAME: Round X2 Series DC					TYPE:Floodlight			WEIGHT:N/A		
SPEC.:RND-65-24-5K-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	12.3	13.4	12.5	13.5	13.7	12.0	13.1	12.2	13.3	13.4
3H	12.3	13.3	12.6	13.5	13.7	12.0	13.0	12.3	13.2	13.4
4H	12.3	13.2	12.5	13.4	13.7	12.0	12.9	12.2	13.1	13.4
6H	12.2	13.1	12.5	13.3	13.6	11.9	12.8	12.2	13.0	13.3
8H	12.1	13.0	12.5	13.3	13.5	11.8	12.7	12.2	13.0	13.2
12H	12.1	12.9	12.4	13.2	13.5	11.8	12.6	12.1	12.9	13.2
4H 2H	12.2	13.1	12.5	13.4	13.6	11.9	12.8	12.2	13.1	13.3
3H	12.2	13.1	12.6	13.3	13.6	12.0	12.8	12.3	13.1	13.4
4H	12.2	13.0	12.6	13.3	13.6	11.9	12.7	12.3	13.0	13.3
6H	12.2	12.8	12.6	13.2	13.5	11.9	12.5	12.3	12.9	13.2
8H	12.1	12.7	12.5	13.1	13.5	11.8	12.4	12.2	12.8	13.2
12H	12.1	12.6	12.5	13.0	13.4	11.8	12.3	12.2	12.7	13.1
8H 4H	12.1	12.7	12.5	13.1	13.5	11.9	12.4	12.3	12.8	13.2
6H	12.1	12.6	12.5	13.0	13.4	11.8	12.3	12.2	12.7	13.1
8H	12.0	12.5	12.5	12.9	13.4	11.8	12.2	12.2	12.6	13.1
12H	12.0	12.4	12.5	12.8	13.3	11.7	12.1	12.2	12.5	13.0
12H 4H	12.1	12.6	12.5	13.0	13.4	11.8	12.4	12.2	12.7	13.1
6H	12.0	12.5	12.5	12.9	13.3	11.8	12.2	12.2	12.6	13.1
8H	12.0	12.4	12.5	12.8	13.3	11.7	12.1	12.2	12.5	13.0
Variations with the observer position at spacings:										
S = 1.0H	+ 1.9 / - 3.8					+ 1.9 / - 4.0				
1.5H	+ 2.6 / - 2.9					+ 2.7 / - 3.0				
2.0H	+ 3.8 / - 3.1					+ 3.7 / - 2.9				

 CIE Pub.117, 10762 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 8.3$ )

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:2.6800A P:65.124W PF:1.0000 Freq:0Hz Lamp Flux:10761.7x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-65-24-5K-60-X2-CG-*	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

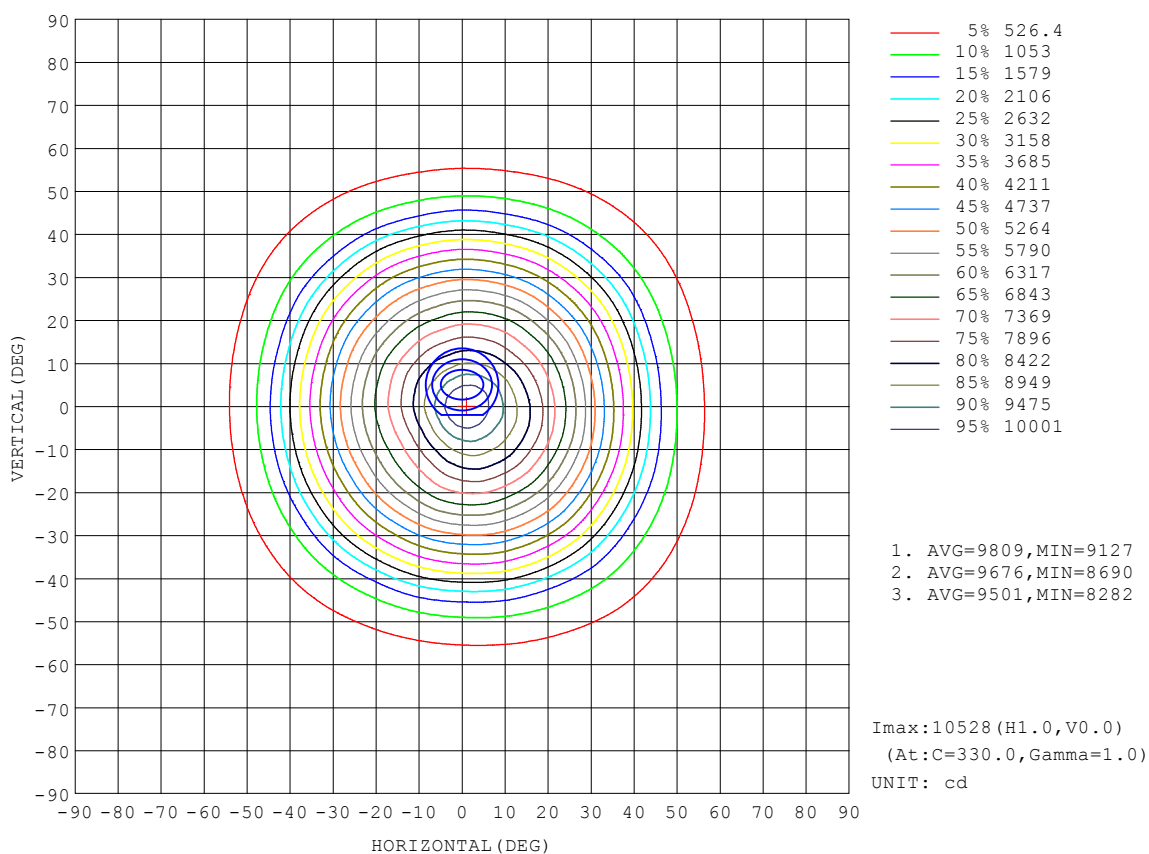
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	79	71	66	78	71	66	77	70	66	61
0.80	87	80	75	86	79	75	85	79	75	70
1.00	93	86	82	92	86	82	91	86	81	76
1.25	98	92	88	97	91	87	95	90	86	81
1.50	102	96	92	100	95	91	98	93	90	85
2.00	106	101	97	104	99	96	101	97	94	88
2.50	108	103	99	106	102	99	103	99	97	90
3.00	110	106	102	108	104	101	104	101	99	92
4.00	112	109	106	110	107	105	106	104	102	94
5.00	114	111	108	111	109	107	107	105	104	96
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:2.6800A P:65.124W PF:1.0000 Freq:0Hz Lamp Flux:10761.7x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-65-24-5K-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

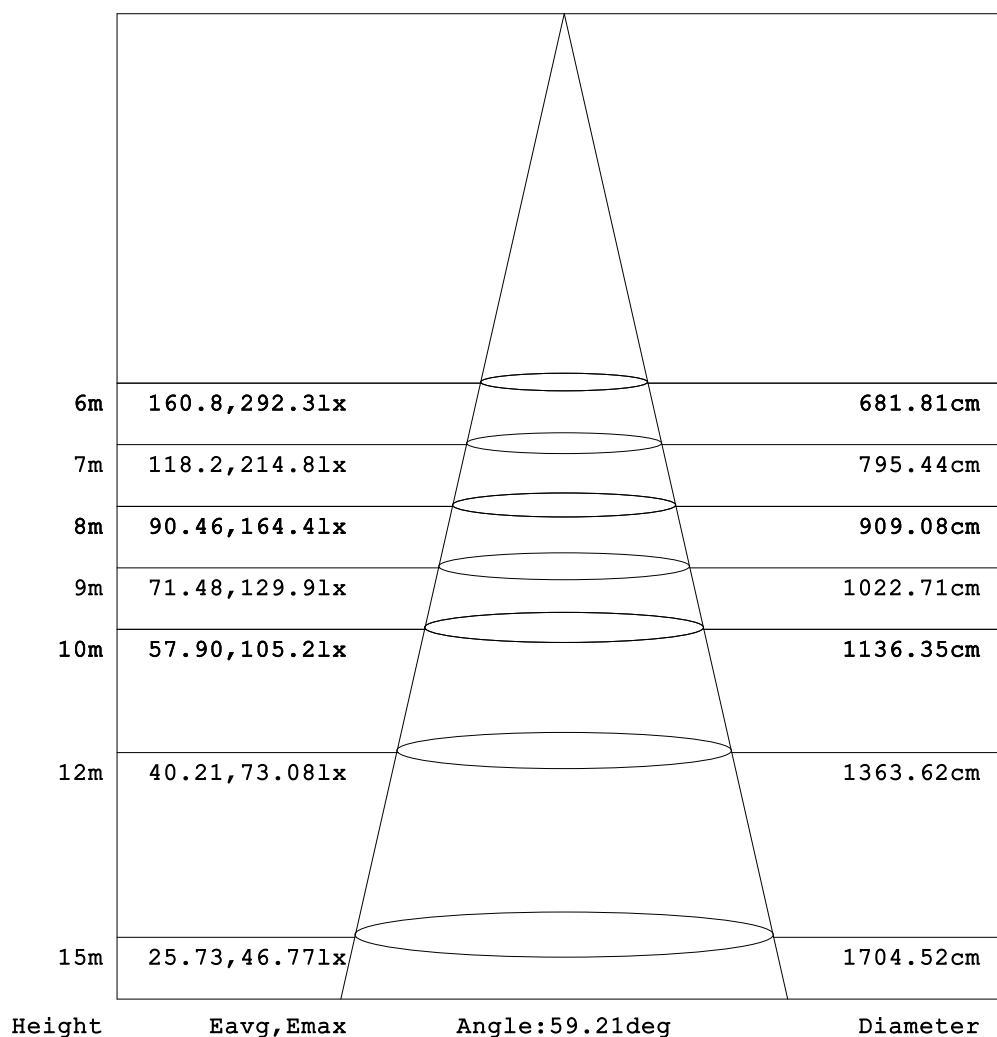
☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:6.010m [K=1.0000]  
 Remarks:



### AAI Figure

Test:U:24.300V I:2.6800A P:65.124W PF:1.0000 Freq:0Hz Lamp Flux:10761.7x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-65-24-5K-60-X2-CG-*	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

Flux out:6063 lm



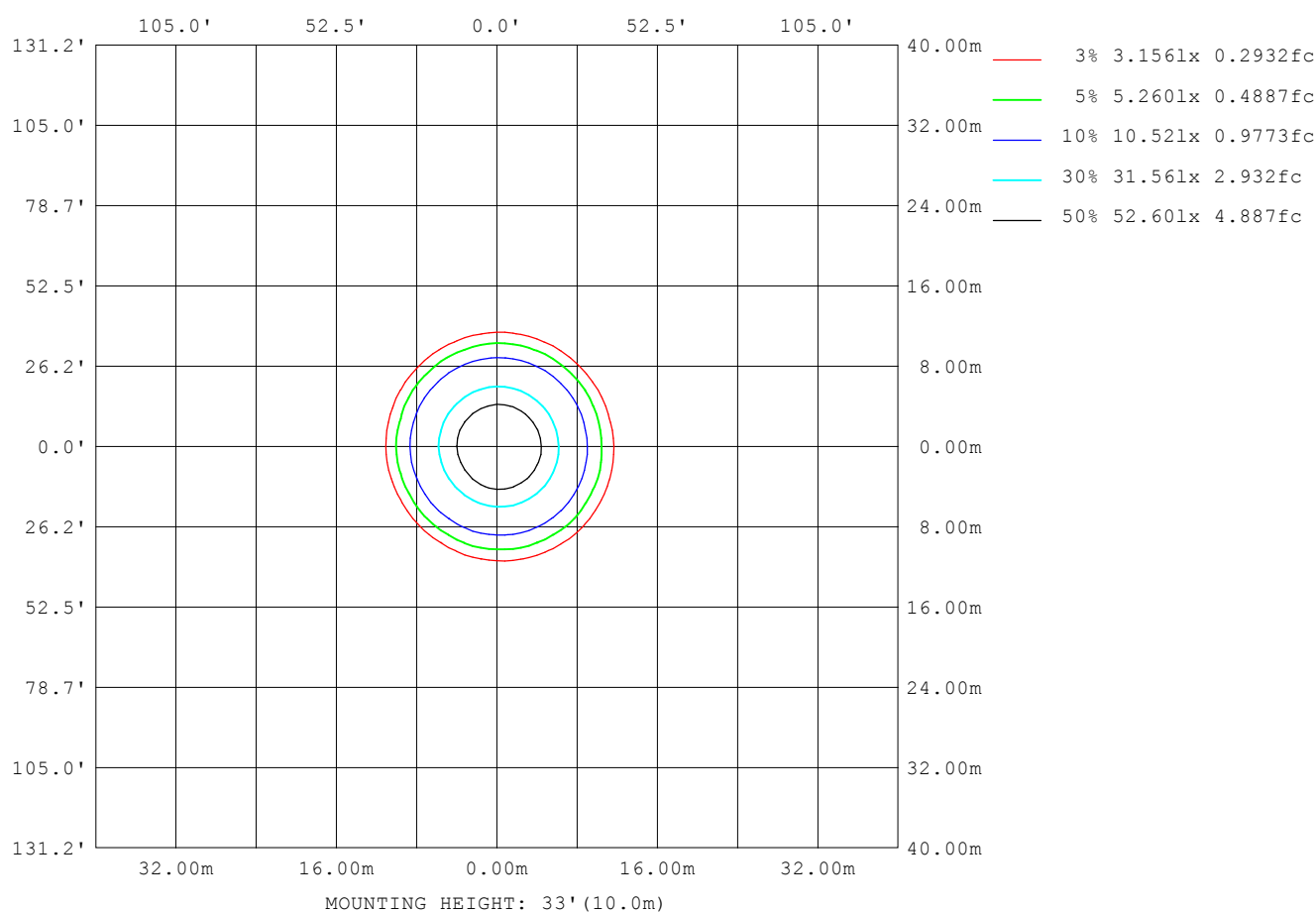
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:2.6800A P:65.124W PF:1.0000 Freq:0Hz Lamp Flux:10761.7x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-65-24-5K-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:2.6800A P:65.124W PF:1.0000 Freq:0Hz Lamp Flux:10761.7x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-65-24-5K-60-X2-CG-*	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

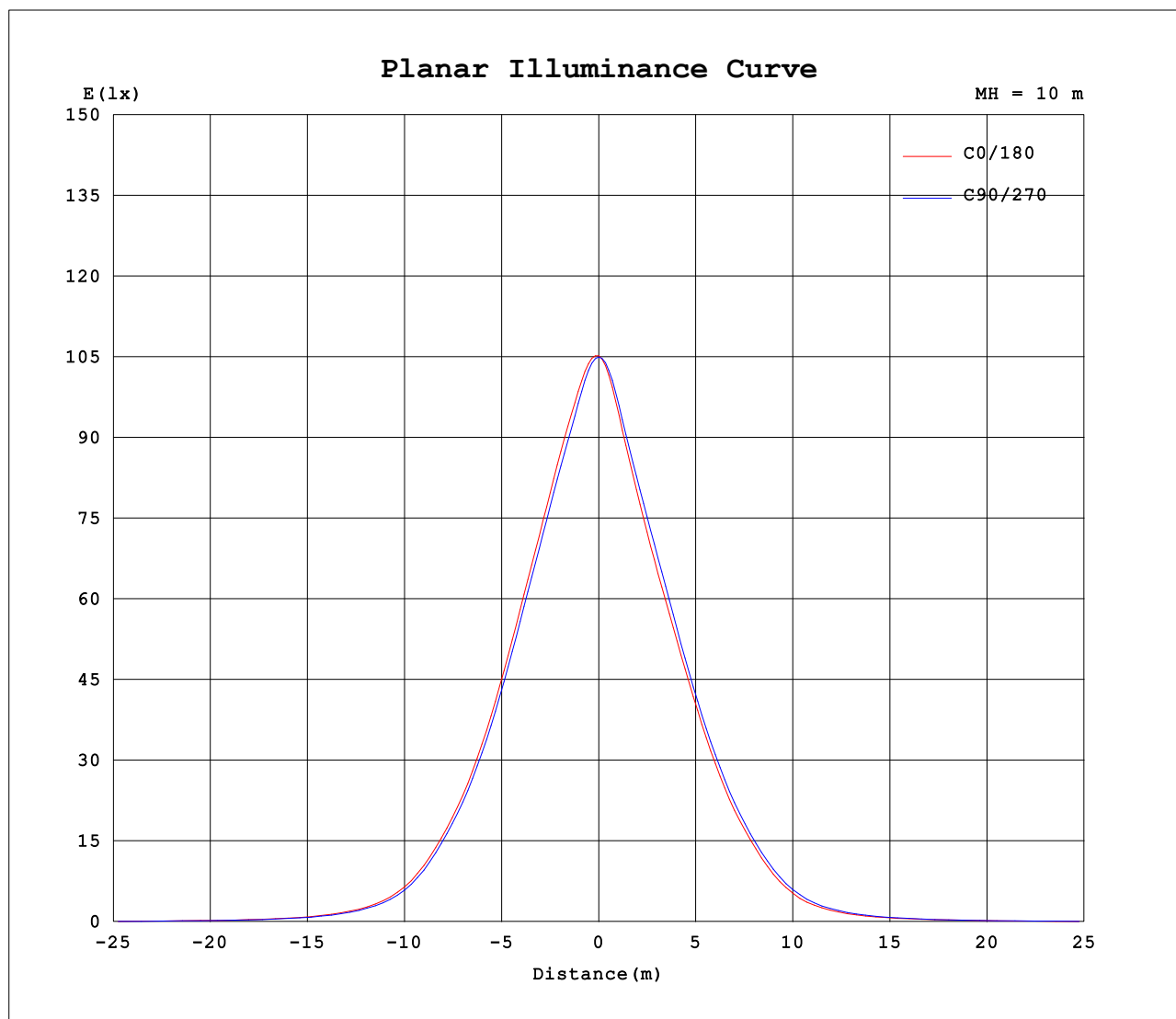
AvgL	cd/m2
L_0~180 (65) av	5345
L_0~180 (75) av	2657
L_0~180 (85) av	536
L_90~270 (65) av	5365
L_90~270 (75) av	2681
L_90~270 (85) av	515
L_45 (65) av	5355
L_45 (75) av	2664
L_45 (85) av	529

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:2.6800A P:65.124W PF:1.0000 Freq:0Hz Lamp Flux:10761.7x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-65-24-5K-60-X2-CG-*	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

Table--1

UNIT: ×10cd

C (DEG) □ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1051	1051	1051	1051	1051	1051	1051	1051	1051	1051	1051	1051	1051	1051	1051	1051	1051	1051	1051
5	1016	1017	1013	1013	1008	1006	998	994	986	981	975	976	978	976	979	978	984	986	996
10	939	942	935	932	928	925	912	899	881	870	860	862	868	870	874	875	879	883	894
15	855	862	859	858	849	844	829	812	787	771	762	765	774	778	787	789	795	797	808
20	766	771	767	766	756	752	740	726	704	689	680	682	689	691	696	697	704	708	721
25	664	668	664	663	654	649	638	627	608	597	589	591	596	595	599	599	605	610	623
30	548	555	553	554	544	537	522	512	496	489	481	483	489	488	494	495	502	505	515
35	427	435	434	436	427	420	405	396	383	377	370	372	377	376	382	384	392	395	403
40	306	313	312	315	306	300	286	278	266	263	257	259	264	262	268	269	277	279	287
45	183	188	187	189	181	177	166	163	151	150	143	147	150	147	154	152	159	160	170
50	105	108	109	109	105	101	94.9	90.1	83.9	80.9	78.7	79.7	81.6	82.4	84.6	85.4	88.3	90.0	93.4
55	61.0	63.0	63.7	62.9	60.8	58.7	55.7	52.3	49.1	47.7	46.4	47.0	48.1	48.4	49.7	49.9	51.6	52.5	54.4
60	37.5	38.5	38.3	38.4	37.2	36.6	34.7	33.6	32.1	31.5	30.8	31.1	31.5	31.7	32.4	32.5	33.3	33.8	34.7
65	24.3	24.8	24.5	24.6	23.9	23.5	22.4	21.9	21.1	20.9	20.6	20.7	20.9	20.8	21.3	21.4	22.1	22.3	22.9
70	14.4	14.7	14.4	14.6	14.0	13.8	13.2	13.0	12.5	12.4	12.2	12.4	12.5	12.4	12.6	12.7	13.2	13.3	13.9
75	7.42	7.48	7.37	7.36	7.24	7.00	6.74	6.47	6.28	6.19	6.13	6.24	6.34	6.34	6.45	6.50	6.69	6.92	7.13
80	2.81	2.87	2.80	2.83	2.68	2.63	2.45	2.38	2.22	2.22	2.17	2.28	2.31	2.27	2.37	2.36	2.50	2.53	2.72
85	0.57	0.58	0.55	0.54	0.47	0.46	0.39	0.38	0.34	0.35	0.33	0.36	0.36	0.35	0.38	0.37	0.43	0.44	0.51
90	0.05	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.04	0.03	0.04	0.03
95	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
100	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
105	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07
110	0.11	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11
115	0.17	0.16	0.17	0.17	0.18	0.18	0.19	0.18	0.19	0.19	0.20	0.20	0.19	0.20	0.20	0.20	0.19	0.19	0.18
120	0.27	0.26	0.27	0.27	0.28	0.28	0.29	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.28
125	0.41	0.40	0.41	0.41	0.43	0.43	0.45	0.45	0.46	0.46	0.47	0.47	0.46	0.47	0.47	0.47	0.46	0.45	0.43
130	0.59	0.59	0.60	0.60	0.62	0.62	0.64	0.65	0.66	0.67	0.68	0.68	0.67	0.68	0.67	0.68	0.66	0.65	0.63
135	0.81	0.81	0.82	0.82	0.84	0.85	0.88	0.89	0.90	0.91	0.92	0.92	0.91	0.92	0.91	0.92	0.90	0.89	0.86
140	1.05	1.05	1.06	1.07	1.10	1.11	1.14	1.15	1.17	1.17	1.18	1.18	1.17	1.18	1.18	1.18	1.17	1.15	1.12
145	1.31	1.31	1.33	1.34	1.37	1.39	1.41	1.43	1.45	1.45	1.46	1.46	1.44	1.45	1.45	1.46	1.45	1.43	1.40
150	1.57	1.57	1.59	1.61	1.64	1.66	1.69	1.70	1.72	1.72	1.73	1.72	1.71	1.72	1.72	1.73	1.72	1.70	1.66
155	1.83	1.84	1.86	1.87	1.90	1.92	1.95	1.96	1.98	1.98	1.99	1.98	1.97	1.98	1.97	1.98	1.97	1.96	1.92
160	2.10	2.11	2.12	2.13	2.15	2.17	2.19	2.21	2.22	2.22	2.23	2.22	2.23	2.22	2.22	2.22	2.21	2.20	2.17
165	2.35	2.36	2.36	2.37	2.38	2.39	2.41	2.43	2.44	2.44	2.44	2.44	2.46	2.44	2.43	2.43	2.43	2.42	2.40
170	2.57	2.57	2.57	2.57	2.58	2.58	2.60	2.60	2.61	2.61	2.62	2.62	2.66	2.64	2.62	2.62	2.61	2.61	2.59
175	2.75	2.74	2.74	2.73	2.73	2.73	2.73	2.73	2.74	2.74	2.75	2.76	2.80	2.79	2.76	2.76	2.75	2.74	2.73
180	2.85	2.85	2.82	2.82	2.81	2.81	2.81	2.81	2.80	2.80	2.80	2.82	2.85	2.85	2.82	2.82	2.82	2.81	2.81

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:2.6800A P:65.124W PF:1.0000 Freq:0Hz Lamp Flux:10761.7x1 lm		
NAME: Round X2 Series DC	TYPE:Floodlight	WEIGHT:N/A
SPEC.:RND-65-24-5K-60-X2-CG-*	DIM.: N/A	SERIAL No.:N/A
MFR.: Red Sky Lighting	SUR.:N/A	Shielding Angle:N/A

Table--2

UNIT: x10cd

C (DEG) □ (DEG)	285	300	315	330	345														
0	1051	1051	1051	1051	1051														
5	1001	1011	1015	1021	1018														
10	902	913	922	933	935														
15	813	821	826	837	845														
20	727	734	737	748	756														
25	630	639	642	652	658														
30	519	527	530	539	541														
35	404	412	414	421	421														
40	288	297	298	305	303														
45	170	176	176	181	180														
50	94.7	97.0	97.4	100	102														
55	54.7	56.0	57.1	57.9	59.5														
60	34.8	35.5	35.5	36.3	36.6														
65	23.0	23.5	23.6	24.1	23.9														
70	13.9	14.3	14.3	14.6	14.4														
75	7.24	7.48	7.53	7.60	7.43														
80	2.75	2.91	2.90	2.98	2.83														
85	0.51	0.58	0.58	0.60	0.56														
90	0.03	0.04	0.04	0.04	0.04														
95	0.04	0.03	0.03	0.03	0.03														
100	0.05	0.05	0.05	0.05	0.05														
105	0.07	0.07	0.07	0.07	0.07														
110	0.11	0.10	0.10	0.10	0.10														
115	0.17	0.16	0.16	0.15	0.16														
120	0.27	0.26	0.26	0.25	0.25														
125	0.42	0.40	0.39	0.38	0.38														
130	0.61	0.58	0.57	0.56	0.56														
135	0.84	0.81	0.79	0.77	0.78														
140	1.09	1.06	1.03	1.01	1.01														
145	1.37	1.33	1.30	1.27	1.27														
150	1.64	1.60	1.57	1.54	1.53														
155	1.89	1.86	1.84	1.81	1.80														
160	2.14	2.11	2.10	2.08	2.07														
165	2.38	2.35	2.34	2.33	2.33														
170	2.58	2.56	2.56	2.55	2.55														
175	2.73	2.72	2.71	2.72	2.72														
180	2.81	2.80	2.80	2.80	2.82														

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: