

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P519669

Luminaire Tested: **SQ4-050U-0D-830-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519669
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-050U-0D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

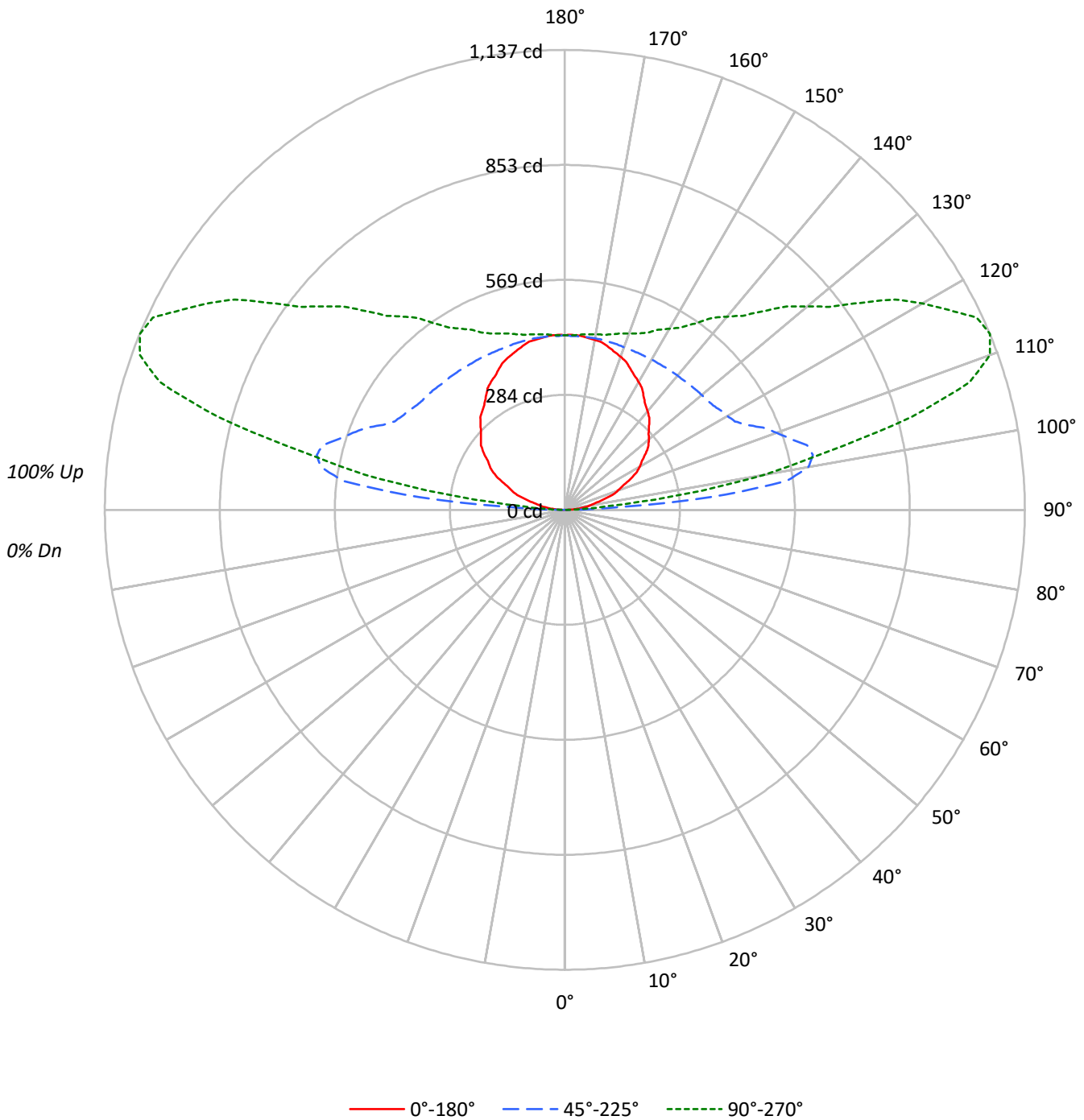
Lumens per Lamp: N/A
Luminaire Lumens: 2820.2 lumens
Efficiency: N/A
Efficacy: 155.8 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Indirect

Input Watts (W): 18.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20								20				20				20				20
RC	80								50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10				0
RCR																					
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10				0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8				0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7				0
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6				0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5				0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4				0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4				0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3				0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3				0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3				0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2				0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
95°	2160	25484	7452
100°	2263	21695	17760
105°	2376	14720	21091
110°	2523	10015	20106
115°	2588	7216	16353
120°	2631	5707	12557
125°	2621	4811	9561
130°	2591	4227	7482
135°	2561	3793	6040
140°	2553	3479	5007
145°	2555	3233	4224
150°	2594	3048	3670
155°	2611	2903	3280
160°	2637	2800	3036
165°	2653	2733	2857
170°	2663	2689	2750
175°	2667	2658	2684



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	207.4	7.4
100°-110°	563.3	20.0
110°-120°	579.1	20.5
120°-130°	463.0	16.4
130°-140°	363.8	12.9
140°-150°	279.0	9.9
150°-160°	200.6	7.1
160°-170°	122.7	4.4
170°-180°	41.3	1.5
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.0	0.0
90°-120°	1349.8	47.9
90°-150°	2455.6	87.1
90°-180°	2820.0	100.0
0°-180°	2820.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
90°	1	6	10	12	12	
95°	31	113	361	157	106	34
105°	100	156	619	943	888	106
115°	178	216	496	986	1124	175
125°	244	278	449	756	892	218
135°	294	327	436	616	694	228
145°	340	365	430	523	562	214
155°	385	398	428	470	483	177
165°	417	422	429	447	449	118
175°	432	433	430	436	435	41
180°	432	432	432	432	432	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
90°	1.4	5.5	9.7	12.5	12.5
92.5°	12.5	56.8	98.6	42.4	35.8
95°	30.6	113.4	361.1	157.2	105.6
97.5°	50.6	125.2	553.6	430.7	302.5
100°	63.9	133.1	612.5	620.9	501.4
102.5°	77.2	141.0	628.0	767.9	662.5
105°	100.0	155.7	619.4	943.2	887.5
107.5°	123.6	172.8	583.6	1033.7	1049.1
110°	140.3	185.1	556.9	1051.5	1118.0
112.5°	154.7	197.4	530.3	1036.7	1136.9
115°	177.8	215.8	495.8	986.4	1123.6
117.5°	199.4	235.8	473.9	915.2	1069.7
120°	213.9	249.2	463.9	867.4	1020.8
122.5°	226.1	261.4	457.2	819.5	967.5
125°	244.4	278.4	448.6	755.8	891.6
127.5°	260.8	294.5	443.9	707.6	824.2
130°	270.8	303.4	441.7	677.4	781.9
132.5°	280.8	313.4	439.4	651.5	744.2
135°	294.4	327.0	436.1	615.7	694.4
137.5°	309.2	338.8	434.4	584.0	650.3
140°	318.0	346.6	433.3	563.8	623.6
142.5°	326.9	353.3	432.2	548.1	598.0
145°	340.3	364.7	430.5	523.1	562.5
147.5°	355.3	376.2	429.2	503.5	534.4
150°	365.3	382.9	429.2	492.2	516.7
152.5°	373.0	388.5	428.0	482.1	502.2
155°	384.7	398.3	427.8	469.7	483.3
157.5°	396.1	406.7	427.8	461.3	471.7
160°	402.8	412.3	427.8	455.7	463.9
162.5°	409.4	416.8	428.9	451.2	457.2
165°	416.7	422.1	429.2	447.2	448.6
167.5°	424.2	426.9	430.5	442.5	443.6
170°	426.4	429.1	430.5	440.3	440.3
172.5°	428.6	430.2	430.5	438.0	438.0
175°	431.9	433.3	430.5	436.1	434.7
177.5°	433.0	433.0	429.7	434.1	431.9
180°	431.9	431.9	431.9	431.9	431.9

(END OF REPORT)