

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: P563857

Luminaire Tested: **SQ4-PR1-025U-050D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563857
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-025U-050D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

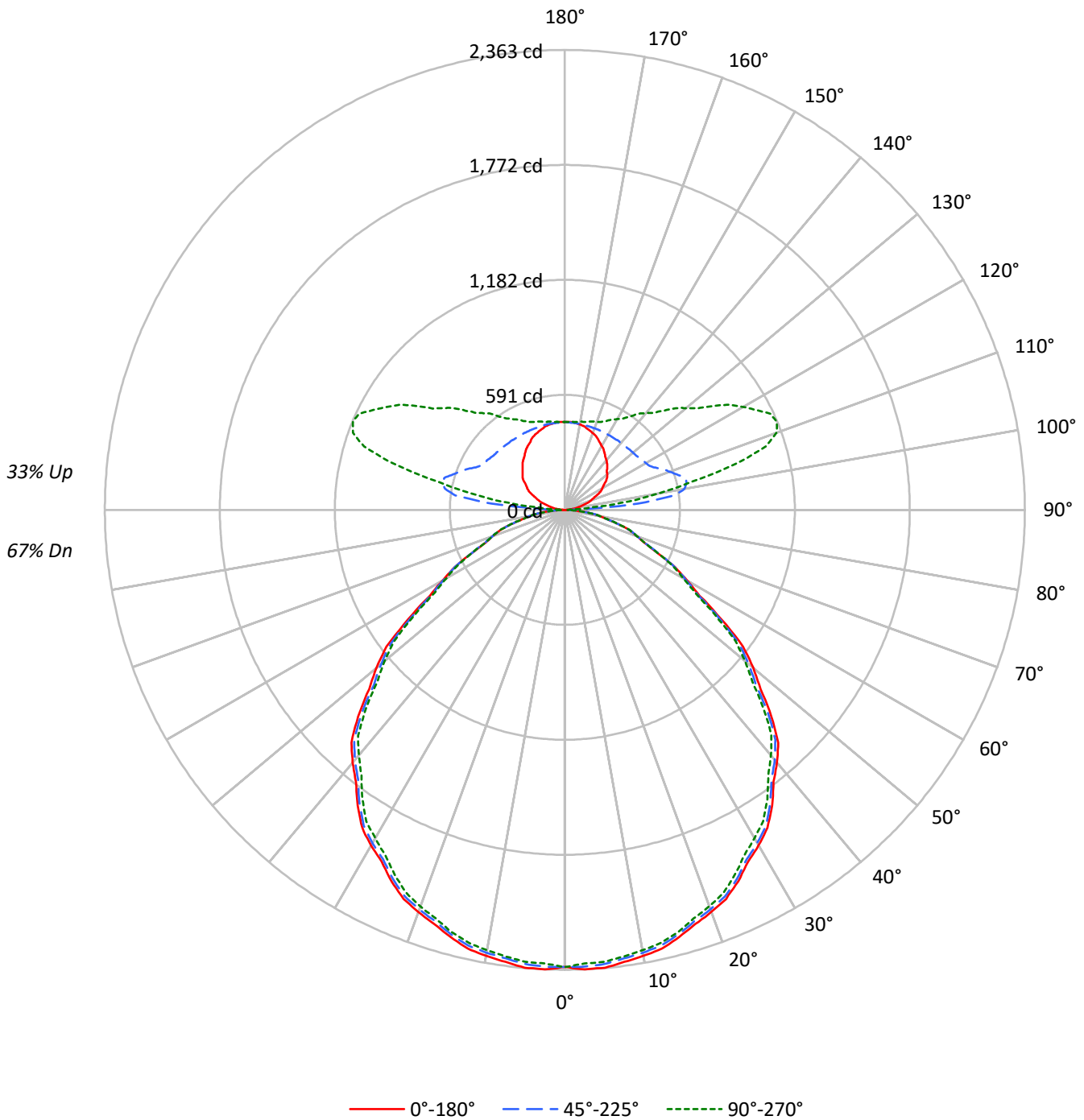
Lumens per Lamp: N/A
Luminaire Lumens: 8801.3 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 68.8
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				70				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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57
2	93	86	80	74	88	81	76	71	72	68	64	64	61	58	57	54	52	48
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	47	45	41
4	78	67	59	53	73	64	57	51	57	51	47	51	47	43	45	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	62	52	44	39	46	40	36	42	37	33	37	33	30	28
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	24
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	35	30	25	32	27	24	29	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7224	7224	7224
5°	7289	7233	7195
10°	7266	7215	7177
15°	7234	7189	7150
20°	7197	7151	7098
25°	7147	7099	7016
30°	7070	7019	6919
35°	6965	6904	6806
40°	6806	6733	6611
45°	6529	6415	6283
50°	6040	5895	5779
55°	5272	5153	5044
60°	4443	4405	4318
65°	3842	3858	3828
70°	3529	3547	3547
75°	3390	3390	3414
80°	3190	3225	3190
85°	2569	2855	2855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.1	2.5
10°-20°	635.5	7.2
20°-30°	958.6	10.9
30°-40°	1142.1	13.0
40°-50°	1126.0	12.8
50°-60°	860.6	9.8
60°-70°	532.5	6.1
70°-80°	302.5	3.4
80°-90°	94.4	1.1
90°-100°	220.1	2.5
100°-110°	578.6	6.6
110°-120°	600.0	6.8
120°-130°	481.3	5.5
130°-140°	377.6	4.3
140°-150°	289.8	3.3
150°-160°	208.7	2.4
160°-170°	127.7	1.5
170°-180°	43.1	0.5
0°-30°	1816.2	20.6
0°-40°	2958.3	33.6
0°-60°	4944.9	56.2
0°-90°	5874.4	66.7
90°-120°	1398.7	15.9
90°-150°	2547.3	28.9
90°-180°	2927.0	33.3
0°-180°	8801.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2349	2349	2349	2349	2349	
5°	2361	2335	2343	2335	2331	224
15°	2272	2248	2258	2250	2246	641
25°	2106	2080	2092	2070	2068	969
35°	1855	1834	1839	1815	1813	1158
45°	1501	1481	1475	1448	1444	1150
55°	983	967	961	945	941	881
65°	528	524	530	526	526	535
75°	285	285	285	287	287	301
85°	73	77	81	81	81	85
90°	3	9	23	12	12	5
95°	29	114	379	195	133	32
105°	104	158	640	971	906	110
115°	185	225	512	1022	1167	183
125°	258	289	466	788	929	229
135°	307	338	452	636	721	237
145°	356	379	446	542	585	223
155°	402	414	446	490	504	185
165°	434	440	446	463	469	123
175°	452	452	449	454	454	43
180°	452	452	452	452	452	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2348.9	2348.9	2348.9	2348.9	2348.9
2.5°	2363.4	2342.9	2348.9	2343.8	2332.7
5°	2361.0	2335.3	2342.8	2334.6	2330.7
7.5°	2342.8	2317.5	2325.0	2316.9	2314.5
10°	2326.6	2302.9	2310.4	2302.3	2298.3
12.5°	2308.8	2283.5	2292.6	2282.8	2278.9
15°	2272.0	2248.3	2257.8	2249.7	2245.7
17.5°	2231.5	2206.2	2215.8	2206.3	2201.2
20°	2199.2	2175.4	2185.0	2170.8	2168.8
22.5°	2163.6	2139.8	2149.4	2130.4	2130.0
25°	2106.1	2080.4	2091.9	2069.6	2067.7
27.5°	2037.7	2014.0	2023.6	2000.8	1998.5
30°	1990.8	1967.0	1976.6	1952.2	1948.3
32.5°	1937.4	1915.2	1923.2	1898.9	1896.5
35°	1855.2	1833.5	1839.0	1814.7	1812.7
37.5°	1761.8	1742.0	1745.2	1718.4	1716.4
40°	1695.4	1675.6	1677.2	1648.8	1646.8
42.5°	1622.6	1602.8	1601.1	1572.8	1570.8
45°	1501.2	1481.4	1474.9	1448.5	1444.5
47.5°	1362.8	1343.0	1330.8	1309.3	1306.5
50°	1262.4	1242.7	1232.1	1213.8	1207.8
52.5°	1154.0	1134.2	1125.3	1108.6	1102.6
55°	983.3	967.4	961.0	944.7	940.8
57.5°	821.0	810.3	808.5	792.6	791.1
60°	722.3	716.3	716.2	702.0	702.0
62.5°	638.1	633.7	636.9	627.5	626.0
65°	528.0	524.1	530.1	526.0	526.0
67.5°	441.0	441.0	444.7	443.1	443.1
70°	392.5	392.5	394.5	394.5	394.5
72.5°	348.8	347.2	352.4	352.4	350.8
75°	285.3	285.3	285.3	287.3	287.3
77.5°	222.1	222.5	224.2	223.7	222.1
80°	180.1	182.0	182.1	180.1	180.1
82.5°	138.0	140.0	140.0	139.6	138.0
85°	72.8	76.8	80.9	80.9	80.9
87.5°	21.6	29.1	37.0	34.7	33.1
90°	2.9	8.6	23.2	11.6	11.6
92.5°	12.2	58.6	129.7	57.4	37.1
95°	28.9	113.9	379.2	195.4	133.2
97.5°	50.4	125.1	567.4	451.2	332.3
100°	66.6	134.5	625.3	633.6	492.1
102.5°	80.5	143.9	641.5	789.2	668.1
105°	104.2	158.0	639.7	971.1	906.0
107.5°	128.5	178.3	603.3	1065.6	1081.5
110°	144.7	190.0	573.2	1090.0	1157.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	160.9	204.0	545.4	1074.6	1178.7
115°	185.3	224.9	512.4	1022.2	1166.6
117.5°	209.0	245.2	489.8	949.6	1109.8
120°	222.9	256.9	480.5	900.9	1056.6
122.5°	236.8	270.8	473.6	852.2	1005.6
125°	257.6	288.8	466.0	787.7	929.2
127.5°	274.4	306.1	459.7	735.7	855.1
130°	283.7	317.6	457.4	703.0	813.4
132.5°	292.9	326.9	455.0	675.0	774.0
135°	306.8	338.0	451.6	635.9	720.8
137.5°	321.3	351.9	451.0	606.6	676.2
140°	332.9	361.2	448.7	583.3	648.4
142.5°	342.2	368.2	448.7	566.9	622.9
145°	356.0	378.7	445.8	542.3	584.7
147.5°	369.9	392.0	445.8	521.8	556.9
150°	379.2	399.0	445.8	510.1	538.4
152.5°	388.5	403.8	445.8	500.7	522.2
155°	402.4	413.7	445.8	489.5	503.7
157.5°	412.8	423.5	445.8	479.6	489.8
160°	419.7	428.2	445.8	474.9	480.5
162.5°	426.7	432.9	445.8	470.2	475.9
165°	434.2	439.9	445.8	463.3	468.9
167.5°	441.2	444.0	448.7	460.3	462.6
170°	445.8	448.6	448.7	460.3	460.3
172.5°	448.1	448.7	448.7	457.9	455.6
175°	451.6	451.6	448.7	454.5	454.5
177.5°	451.6	451.6	449.3	453.8	451.6
180°	451.6	451.6	451.6	451.6	451.6

(END OF REPORT)