

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: P562648

Luminaire Tested: **SQ4-PC3-050U-075D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562648  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-050U-075D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

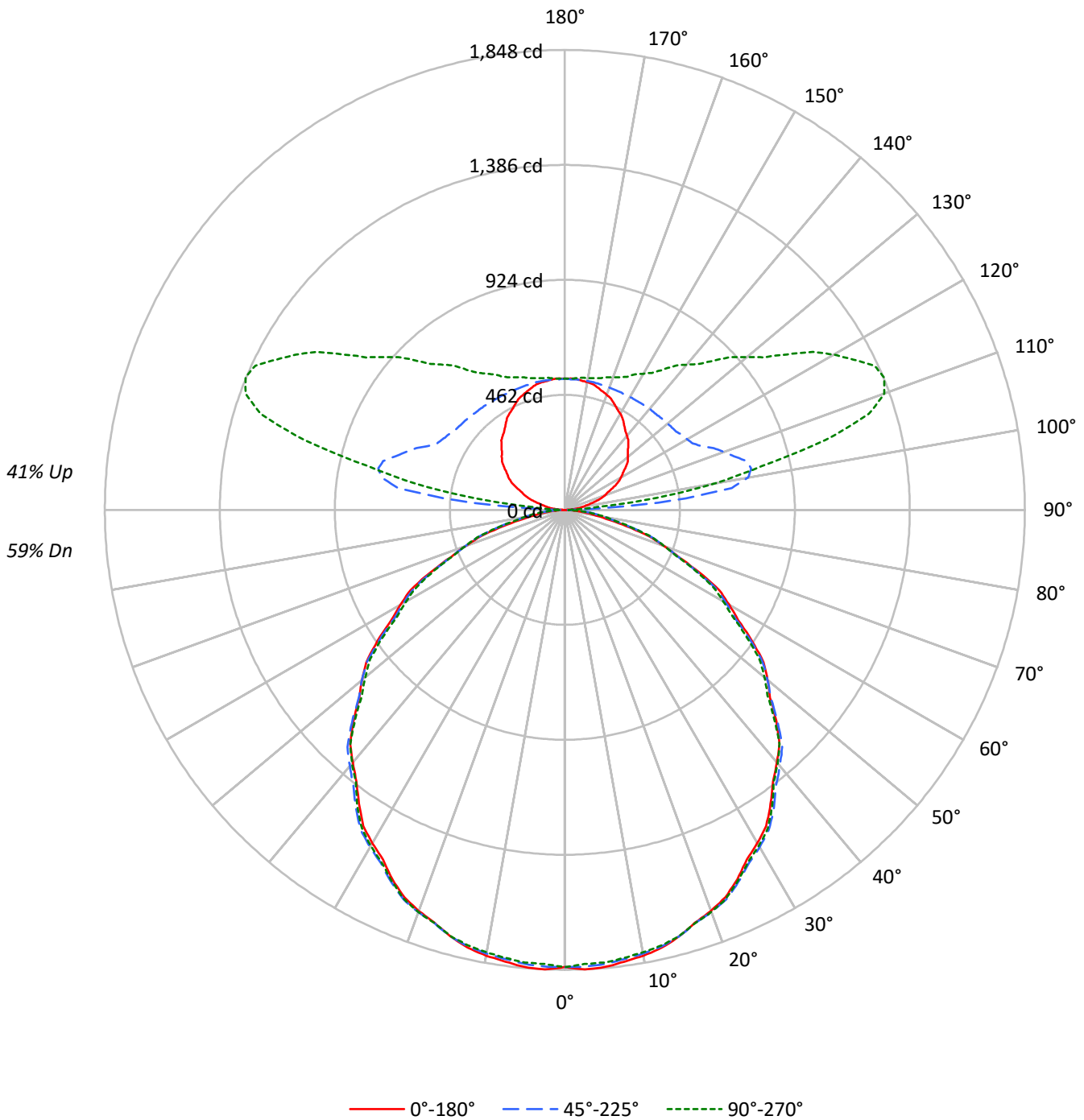
Lumens per Lamp: N/A  
Luminaire Lumens: 8460.9 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 78.1  
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				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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36
4	76	65	57	51	71	61	54	48	53	48	43	46	42	38	40	37	34	30
5	70	58	50	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	44	38	60	49	41	36	43	37	33	38	33	29	33	29	26	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	30	26	23	20
8	55	43	35	29	51	40	33	28	36	30	25	31	26	23	27	23	21	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	21	27	22	19	23	20	17	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8477	8477	8477
5°	8540	8485	8454
10°	8520	8480	8456
15°	8475	8475	8467
20°	8419	8444	8444
25°	8340	8401	8375
30°	8238	8338	8302
35°	8116	8240	8183
40°	7982	8094	8012
45°	7837	7892	7770
50°	7632	7632	7510
55°	7390	7293	7184
60°	7032	6891	6781
65°	6500	6370	6315
70°	5691	5738	5713
75°	4579	5064	5094
80°	3254	4293	4338
85°	1980	3604	3604



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.9	2.1
10°-20°	499.0	5.9
20°-30°	755.7	8.9
30°-40°	906.0	10.7
40°-50°	923.9	10.9
50°-60°	806.4	9.5
60°-70°	577.3	6.8
70°-80°	297.4	3.5
80°-90°	77.2	0.9
90°-100°	253.2	3.0
100°-110°	687.8	8.1
110°-120°	707.2	8.4
120°-130°	565.4	6.7
130°-140°	444.3	5.3
140°-150°	340.7	4.0
150°-160°	245.0	2.9
160°-170°	149.8	1.8
170°-180°	50.5	0.6
0°-30°	1428.7	16.9
0°-40°	2334.7	27.6
0°-60°	4065.0	48.0
0°-90°	5017.0	59.3
90°-120°	1648.3	19.5
90°-150°	2998.6	35.4
90°-180°	3444.0	40.7
0°-180°	8460.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1844	1826	1832	1827	1826	175
15°	1775	1760	1775	1774	1773	500
25°	1638	1627	1650	1645	1645	754
35°	1441	1438	1463	1453	1453	901
45°	1201	1198	1210	1194	1191	925
55°	919	907	907	893	893	819
65°	596	582	584	578	578	589
75°	257	269	284	286	286	278
85°	37	57	68	70	68	51
90°	2	7	12	15	15	4
95°	37	138	441	192	129	40
105°	122	190	756	1152	1084	130
115°	217	264	606	1205	1372	214
125°	298	340	548	923	1089	266
135°	360	399	532	752	848	278
145°	416	445	526	639	687	261
155°	470	486	522	574	590	217
165°	509	515	524	546	548	144
175°	528	529	526	532	531	50
180°	528	528	528	528	528	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1837.5	1837.5	1837.5	1837.5	1837.5
2.5°	1848.4	1832.4	1837.5	1833.3	1826.6
5°	1844.3	1826.0	1832.4	1827.3	1825.6
7.5°	1831.1	1812.8	1821.2	1817.7	1816.1
10°	1818.8	1800.5	1810.3	1806.9	1805.2
12.5°	1802.5	1785.5	1796.7	1793.3	1792.9
15°	1774.6	1759.6	1774.6	1774.5	1772.9
17.5°	1739.5	1725.9	1741.9	1742.9	1741.9
20°	1715.0	1700.0	1720.1	1718.5	1720.1
22.5°	1685.1	1672.8	1694.3	1689.9	1691.5
25°	1638.5	1626.8	1650.4	1645.3	1645.3
27.5°	1583.3	1575.0	1600.7	1595.2	1595.2
30°	1546.6	1538.3	1565.3	1558.5	1558.5
32.5°	1505.7	1500.1	1525.8	1517.7	1517.7
35°	1441.1	1437.8	1463.2	1453.0	1453.0
37.5°	1374.4	1371.4	1394.5	1382.1	1378.1
40°	1325.4	1323.7	1344.1	1330.5	1330.5
42.5°	1276.4	1274.7	1292.4	1276.1	1276.1
45°	1201.2	1197.9	1209.7	1194.3	1191.0
47.5°	1119.2	1115.9	1123.3	1106.6	1104.9
50°	1063.4	1060.1	1063.4	1048.0	1046.4
52.5°	1006.2	1000.2	1000.8	985.4	985.1
55°	918.8	907.1	906.8	893.2	893.2
57.5°	826.2	810.9	812.3	800.6	799.0
60°	762.2	745.6	746.9	736.7	735.0
62.5°	699.6	680.3	684.3	672.7	672.4
65°	595.5	582.2	583.6	578.5	578.5
67.5°	495.4	483.1	492.0	488.0	487.6
70°	421.9	413.6	425.4	425.3	423.6
72.5°	353.9	353.6	368.2	368.2	369.2
75°	256.9	268.6	284.1	285.8	285.8
77.5°	171.5	192.1	209.3	209.9	209.6
80°	122.5	145.8	161.6	165.0	163.3
82.5°	83.0	107.6	120.8	124.2	122.5
85°	37.4	57.4	68.1	69.7	68.1
87.5°	11.2	24.2	29.6	30.2	27.6
90°	1.7	6.7	11.9	15.3	15.3
92.5°	15.3	69.3	120.4	51.7	43.8
95°	37.3	138.5	441.0	191.9	128.9
97.5°	61.7	152.9	676.0	525.9	369.4
100°	78.0	162.6	747.9	758.2	612.3
102.5°	94.3	172.2	766.9	937.7	809.0
105°	122.1	190.1	756.4	1151.7	1083.8
107.5°	150.9	211.0	712.7	1262.3	1281.2
110°	171.3	226.0	680.1	1284.0	1365.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	188.9	241.0	647.5	1266.0	1388.4
115°	217.1	263.5	605.5	1204.6	1372.1
117.5°	243.5	288.0	578.7	1117.6	1306.3
120°	261.2	304.3	566.5	1059.2	1246.6
122.5°	276.1	319.2	558.3	1000.7	1181.4
125°	298.5	340.0	547.8	923.0	1088.8
127.5°	318.5	359.6	542.0	864.1	1006.4
130°	330.7	370.5	539.3	827.2	954.9
132.5°	342.9	382.7	536.6	795.6	908.7
135°	359.6	399.4	532.5	751.8	848.0
137.5°	377.5	413.7	530.5	713.1	794.1
140°	388.4	423.2	529.2	688.5	761.5
142.5°	399.2	431.4	527.8	669.3	730.3
145°	415.5	445.4	525.8	638.8	686.9
147.5°	433.8	459.4	524.1	614.8	652.6
150°	446.1	467.6	524.1	601.1	630.9
152.5°	455.6	474.5	522.7	588.7	613.3
155°	469.8	486.4	522.4	573.6	590.2
157.5°	483.7	496.6	522.4	563.4	576.0
160°	491.8	503.5	522.4	556.5	566.5
162.5°	500.0	508.9	523.7	551.0	558.3
165°	508.8	515.4	524.1	546.2	547.8
167.5°	518.0	521.3	525.8	540.4	541.7
170°	520.7	524.0	525.8	537.6	537.6
172.5°	523.4	525.4	525.8	534.9	534.9
175°	527.5	529.1	525.8	532.5	530.9
177.5°	528.8	528.8	524.7	530.1	527.5
180°	527.5	527.5	527.5	527.5	527.5

(END OF REPORT)