

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: P563316

Luminaire Tested: **SQ4-PP3-050U-075D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563316  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-050U-075D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

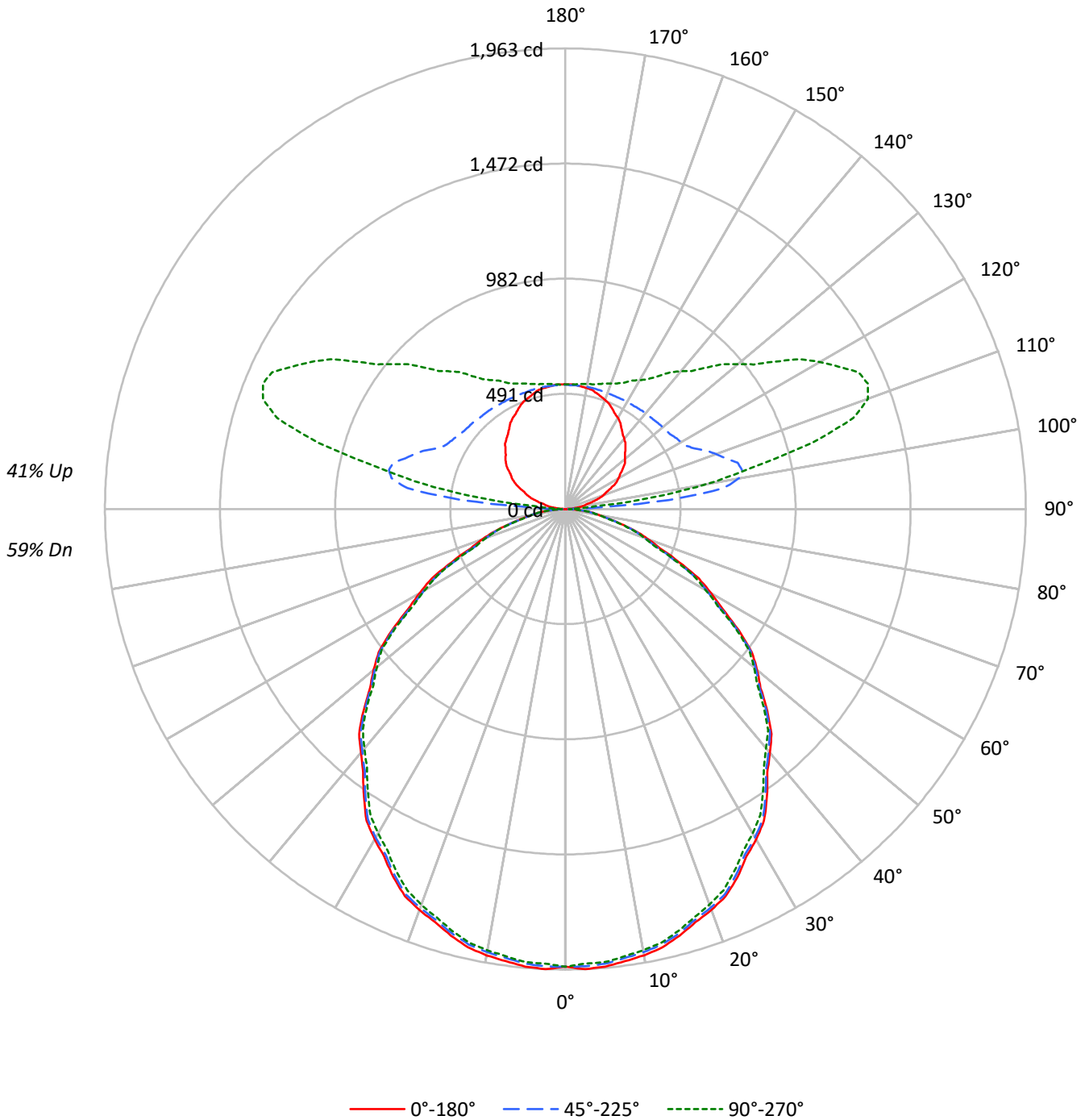
Lumens per Lamp: N/A  
Luminaire Lumens: 8456.4 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

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	50	30	10	0	
RCR																						
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59				
1	100	96	92	88	93	90	86	83	78	75	73	67	65	64	57	56	55	50				
2	91	84	78	73	85	79	73	69	69	64	61	59	56	54	51	49	47	42				
3	83	74	67	61	78	69	63	58	61	56	51	53	49	46	45	42	40	36				
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31				
5	70	58	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27				
6	65	53	44	38	60	49	42	37	44	38	33	38	33	30	33	29	27	24				
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	26	24	21				
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19				
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17				
10	48	36	29	24	45	34	28	23	31	25	21	27	22	19	24	20	17	15				

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

	0°	45°	90°
0°	8999	8999	8999
5°	9065	9010	8978
10°	9050	8986	8946
15°	8990	8941	8892
20°	8930	8880	8813
25°	8824	8763	8676
30°	8661	8615	8506
35°	8434	8376	8271
40°	8165	8113	8020
45°	7942	7885	7808
50°	7656	7607	7533
55°	7260	7164	7109
60°	6610	6420	6388
65°	5822	5580	5561
70°	5027	4819	4819
75°	4328	4267	4205
80°	3815	3860	3770
85°	2985	3255	3255



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.5	2.2
10°-20°	526.7	6.2
20°-30°	788.9	9.3
30°-40°	925.4	10.9
40°-50°	928.3	11.0
50°-60°	791.9	9.4
60°-70°	516.4	6.1
70°-80°	259.1	3.1
80°-90°	73.7	0.9
90°-100°	254.5	3.0
100°-110°	691.4	8.2
110°-120°	710.8	8.4
120°-130°	568.3	6.7
130°-140°	446.6	5.3
140°-150°	342.4	4.0
150°-160°	246.2	2.9
160°-170°	150.6	1.8
170°-180°	50.7	0.6
0°-30°	1500.1	17.7
0°-40°	2425.5	28.7
0°-60°	4145.6	49.0
0°-90°	4994.9	59.1
90°-120°	1656.7	19.6
90°-150°	3014.0	35.6
90°-180°	3462.0	40.9
0°-180°	8456.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1951	1951	1951	1951	1951	
5°	1958	1939	1946	1939	1939	186
15°	1882	1864	1872	1865	1862	531
25°	1734	1714	1722	1706	1705	797
35°	1498	1483	1487	1470	1469	936
45°	1217	1209	1209	1197	1197	937
55°	903	899	891	886	884	802
65°	533	523	511	508	510	532
75°	243	243	239	238	236	263
85°	56	61	62	62	62	66
90°	2	7	12	15	15	5
95°	38	139	443	193	130	40
105°	123	191	760	1158	1089	130
115°	218	265	609	1211	1379	215
125°	300	342	551	928	1094	267
135°	361	401	535	756	852	279
145°	418	448	528	642	690	262
155°	472	489	525	577	593	218
165°	511	518	527	549	551	144
175°	530	532	528	535	534	50
180°	530	530	530	530	530	



TEST NUMBER: P563316

CATALOG NUMBER: SQ4-PP3-050U-075D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1950.7	1950.7	1950.7	1950.7	1950.7
2.5°	1963.1	1947.0	1950.7	1947.8	1939.8
5°	1957.6	1939.2	1945.6	1938.8	1938.8
7.5°	1944.3	1924.2	1930.6	1923.7	1923.4
10°	1931.9	1911.9	1918.3	1911.4	1909.7
12.5°	1914.2	1894.1	1901.9	1893.6	1893.3
15°	1882.4	1864.0	1872.1	1865.2	1861.8
17.5°	1846.5	1826.4	1836.2	1826.6	1825.3
20°	1819.1	1799.0	1808.8	1795.2	1795.2
22.5°	1786.3	1766.2	1777.4	1759.6	1759.6
25°	1733.6	1713.6	1721.7	1706.2	1704.6
27.5°	1671.0	1651.3	1659.8	1642.3	1642.0
30°	1625.9	1607.5	1617.4	1598.5	1596.8
32.5°	1576.7	1559.6	1566.8	1547.9	1546.2
35°	1497.7	1482.6	1487.4	1470.3	1468.6
37.5°	1414.6	1399.2	1404.7	1390.0	1389.3
40°	1355.8	1345.7	1347.2	1335.2	1331.8
42.5°	1301.1	1289.7	1291.2	1279.2	1278.5
45°	1217.3	1208.9	1208.7	1196.8	1196.8
47.5°	1128.4	1122.0	1120.2	1110.3	1109.9
50°	1066.8	1061.8	1060.0	1051.4	1049.7
52.5°	1002.6	1000.2	994.4	987.2	986.8
55°	902.7	899.4	890.7	885.6	883.9
57.5°	794.3	787.6	777.9	770.4	771.8
60°	716.4	709.7	695.8	692.4	692.4
62.5°	641.1	633.1	619.2	614.5	617.2
65°	533.4	523.4	511.2	507.8	509.5
67.5°	435.6	426.6	413.4	413.4	412.0
70°	372.7	367.7	357.3	357.3	357.3
72.5°	316.6	314.3	306.7	306.7	305.3
75°	242.8	242.8	239.4	237.6	235.9
77.5°	181.9	182.6	180.9	179.1	176.1
80°	143.6	147.0	145.3	143.6	141.9
82.5°	108.1	111.4	111.1	108.0	107.7
85°	56.4	61.4	61.5	61.5	61.5
87.5°	15.4	21.7	24.3	25.0	26.3
90°	1.7	6.7	11.9	15.3	15.3
92.5°	15.3	69.7	121.0	52.0	44.0
95°	37.5	139.2	443.2	192.9	129.6
97.5°	62.1	153.7	679.5	528.6	371.3
100°	78.4	163.4	751.8	762.1	615.4
102.5°	94.8	173.1	770.9	942.5	813.1
105°	122.7	191.1	760.3	1157.6	1089.3
107.5°	151.7	212.1	716.3	1268.7	1287.7
110°	172.2	227.2	683.6	1290.6	1372.3



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CATALOG NUMBER: SQ4-PP3-050U-075D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	189.9	242.2	650.8	1272.4	1395.4
115°	218.2	264.9	608.6	1210.7	1379.1
117.5°	244.8	289.5	581.6	1123.3	1312.9
120°	262.5	305.9	569.4	1064.6	1252.9
122.5°	277.5	320.9	561.2	1005.8	1187.5
125°	300.0	341.7	550.6	927.7	1094.4
127.5°	320.1	361.5	544.8	868.5	1011.6
130°	332.4	372.4	542.1	831.4	959.7
132.5°	344.7	384.7	539.4	799.7	913.4
135°	361.4	401.4	535.3	755.7	852.3
137.5°	379.5	415.8	533.2	716.8	798.1
140°	390.4	425.4	531.9	692.1	765.4
142.5°	401.3	433.6	530.5	672.7	734.0
145°	417.6	447.6	528.4	642.1	690.4
147.5°	436.1	461.7	526.7	618.0	656.0
150°	448.3	470.0	526.7	604.1	634.1
152.5°	457.9	476.9	525.4	591.7	616.4
155°	472.2	488.9	525.0	576.6	593.2
157.5°	486.2	499.2	525.0	566.2	578.9
160°	494.4	506.0	525.0	559.4	569.4
162.5°	502.5	511.5	526.4	553.8	561.2
165°	511.4	518.1	526.7	548.9	550.6
167.5°	520.6	523.9	528.4	543.1	544.5
170°	523.3	526.7	528.4	540.4	540.4
172.5°	526.1	528.1	528.4	537.7	537.7
175°	530.2	531.8	528.4	535.2	533.6
177.5°	531.5	531.5	527.4	532.8	530.2
180°	530.2	530.2	530.2	530.2	530.2

(END OF REPORT)