

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: P563396

Luminaire Tested: **SQ4-PP3-075U-075D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563396  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-075D-830-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

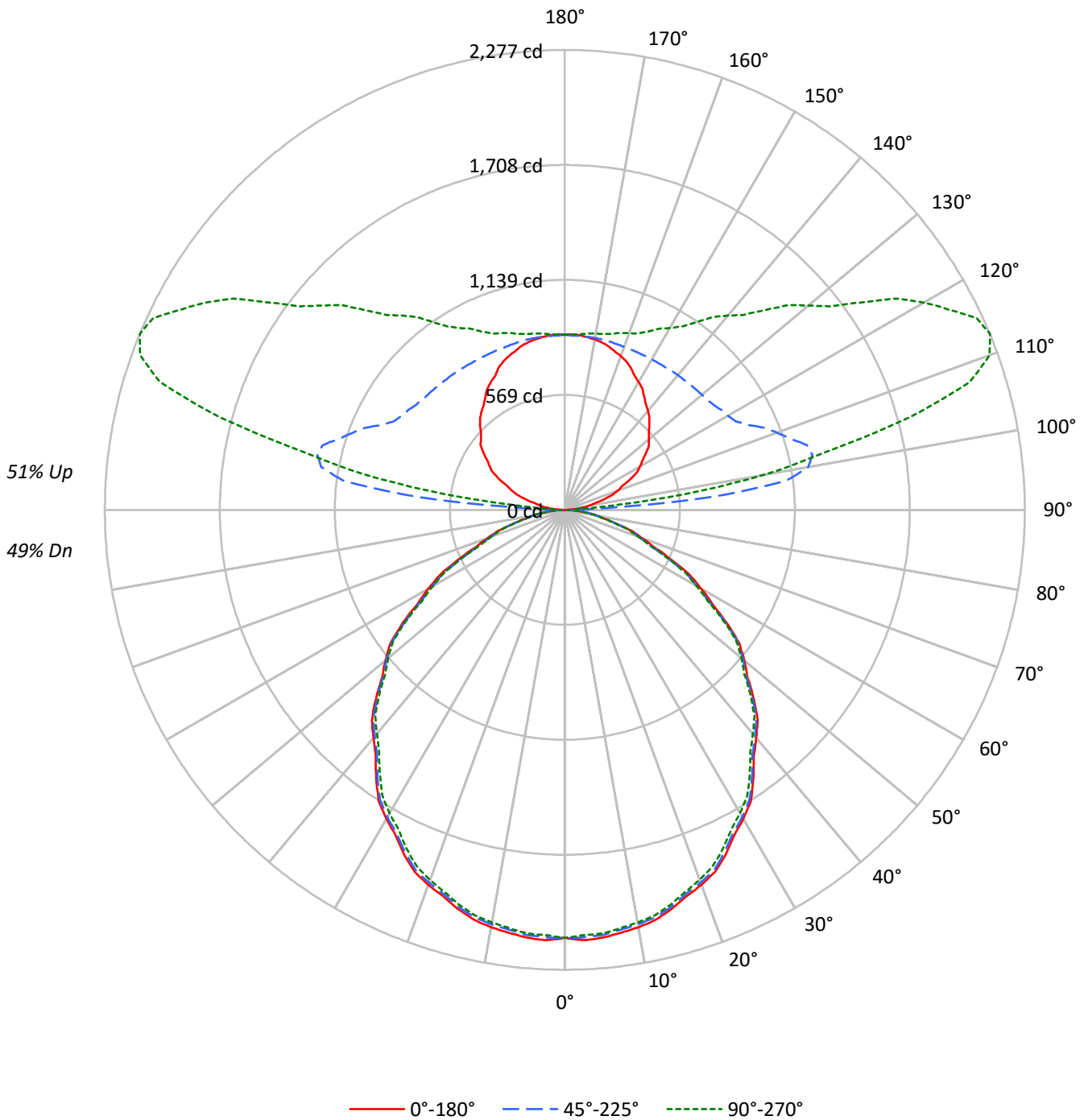
Lumens per Lamp: N/A  
Luminaire Lumens: 11077.6 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 91  
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



TEST NUMBER: P563396  
CATALOG NUMBER: SQ4-PP3-075U-075D-830-1D-UNV-STD-W-8

### Luminous Intensity Polar Plot





TEST NUMBER: P563396

CATALOG NUMBER: SQ4-PP3-075U-075D-830-1D-UNV-STD-W-8

**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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	76	71	82	76	70	66	64	60	57	53	51	48	43	42	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

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

	0°	45°	90°
0°	9776	9776	9776
5°	9848	9787	9753
10°	9831	9761	9718
15°	9766	9713	9660
20°	9701	9646	9573
25°	9586	9520	9425
30°	9409	9359	9240
35°	9163	9099	8985
40°	8869	8813	8713
45°	8627	8567	8482
50°	8317	8264	8184
55°	7887	7782	7723
60°	7180	6974	6940
65°	6326	6061	6042
70°	5461	5236	5236
75°	4700	4634	4568
80°	4144	4195	4096
85°	3245	3541	3541



TEST NUMBER: P563396

CATALOG NUMBER: SQ4-PP3-075U-075D-830-1D-UNV-STD-W-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.4	1.8
10°-20°	572.2	5.2
20°-30°	857.0	7.7
30°-40°	1005.2	9.1
40°-50°	1008.4	9.1
50°-60°	860.2	7.8
60°-70°	561.0	5.1
70°-80°	281.5	2.5
80°-90°	80.1	0.7
90°-100°	409.2	3.7
100°-110°	1125.7	10.2
110°-120°	1161.9	10.5
120°-130°	931.0	8.4
130°-140°	731.2	6.6
140°-150°	560.3	5.1
150°-160°	402.9	3.6
160°-170°	246.4	2.2
170°-180°	83.0	0.7
0°-30°	1629.6	14.7
0°-40°	2634.8	23.8
0°-60°	4503.4	40.7
0°-90°	5426.0	49.0
90°-120°	2696.8	24.3
90°-150°	4919.3	44.4
90°-180°	5652.0	51.0
0°-180°	11077.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2119	2119	2119	2119	2119	
5°	2127	2107	2114	2106	2106	202
15°	2045	2025	2034	2026	2023	577
25°	1883	1862	1870	1854	1852	866
35°	1627	1611	1616	1597	1595	1016
45°	1322	1313	1313	1300	1300	1018
55°	981	977	968	962	960	871
65°	580	569	555	552	554	578
75°	264	264	260	258	256	286
85°	61	67	67	67	67	72
90°	2	7	13	17	17	6
95°	61	223	724	309	198	64
105°	201	310	1240	1889	1763	212
115°	356	434	995	1981	2248	352
125°	491	560	903	1527	1789	438
135°	592	658	877	1235	1397	457
145°	685	732	864	1052	1133	429
155°	775	800	858	946	973	356
165°	838	849	862	897	903	236
175°	868	869	864	875	873	82
180°	868	868	868	868	868	

TEST NUMBER: P563396

CATALOG NUMBER: SQ4-PP3-075U-075D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2119.1	2119.1	2119.1	2119.1	2119.1
2.5°	2132.5	2115.1	2119.1	2116.0	2107.2
5°	2126.6	2106.6	2113.6	2106.1	2106.1
7.5°	2112.1	2090.3	2097.2	2089.8	2089.4
10°	2098.7	2076.9	2083.8	2076.4	2074.6
12.5°	2079.4	2057.6	2066.0	2057.1	2056.7
15°	2044.8	2024.9	2033.7	2026.2	2022.6
17.5°	2005.8	1984.0	1994.7	1984.3	1982.8
20°	1976.1	1954.3	1965.0	1950.1	1950.1
22.5°	1940.5	1918.7	1930.8	1911.5	1911.5
25°	1883.3	1861.5	1870.3	1853.5	1851.7
27.5°	1815.3	1793.9	1803.0	1784.1	1783.7
30°	1766.3	1746.3	1757.0	1736.5	1734.7
32.5°	1712.8	1694.2	1702.0	1681.5	1679.7
35°	1627.0	1610.6	1615.8	1597.2	1595.4
37.5°	1536.7	1520.0	1525.9	1509.9	1509.2
40°	1472.8	1461.9	1463.5	1450.4	1446.8
42.5°	1413.4	1401.0	1402.6	1389.6	1388.9
45°	1322.4	1313.3	1313.1	1300.1	1300.1
47.5°	1225.8	1218.9	1216.9	1206.1	1205.7
50°	1158.9	1153.5	1151.5	1142.2	1140.4
52.5°	1089.1	1086.6	1080.2	1072.4	1072.0
55°	980.6	977.0	967.6	962.0	960.2
57.5°	862.9	855.6	845.1	836.9	838.4
60°	778.2	770.9	755.9	752.2	752.2
62.5°	696.5	687.8	672.7	667.6	670.5
65°	579.5	568.6	555.3	551.6	553.5
67.5°	473.2	463.4	449.1	449.1	447.6
70°	404.9	399.4	388.2	388.2	388.2
72.5°	344.0	341.4	333.2	333.2	331.7
75°	263.7	263.7	260.0	258.1	256.3
77.5°	197.6	198.3	196.5	194.6	191.3
80°	156.0	159.6	157.9	156.0	154.2
82.5°	117.4	121.0	120.7	117.4	117.0
85°	61.3	66.7	66.9	66.9	66.9
87.5°	16.7	23.6	26.4	27.1	28.6
90°	1.8	7.3	12.9	16.6	16.6
92.5°	25.5	108.9	188.6	72.4	59.4
95°	60.9	223.3	723.6	309.4	197.5
97.5°	99.3	247.7	1104.2	850.8	600.3
100°	127.4	262.7	1223.8	1235.2	1007.8
102.5°	153.9	280.6	1254.8	1532.4	1323.8
105°	201.2	309.5	1240.4	1889.1	1762.7
107.5°	246.2	345.1	1169.9	2063.7	2101.3
110°	278.7	369.0	1116.7	2107.2	2237.1



TEST NUMBER: P563396

CATALOG NUMBER: SQ4-PP3-075U-075D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	308.3	395.6	1063.6	2079.2	2277.0
115°	356.2	433.8	994.9	1981.1	2248.2
117.5°	402.0	473.5	951.3	1843.4	2145.6
120°	430.1	498.7	932.1	1740.3	2052.5
122.5°	455.2	523.8	918.8	1649.9	1946.2
125°	491.0	559.6	902.6	1526.9	1788.6
127.5°	524.9	590.3	891.9	1424.3	1653.8
130°	542.7	609.4	886.0	1363.3	1572.6
132.5°	563.3	630.1	881.6	1309.7	1498.8
135°	592.5	657.5	876.8	1234.8	1397.3
137.5°	619.8	680.1	872.7	1174.4	1308.3
140°	640.5	696.4	871.2	1134.2	1255.2
142.5°	658.2	709.8	868.3	1098.4	1202.0
145°	684.8	731.7	863.8	1052.1	1133.3
147.5°	713.2	753.6	861.6	1011.1	1076.1
150°	730.9	767.0	860.1	988.7	1039.2
152.5°	747.2	780.4	858.7	969.3	1011.1
155°	775.2	800.5	858.3	945.7	972.7
157.5°	795.5	816.1	858.3	926.3	945.1
160°	810.3	826.6	858.3	915.9	930.3
162.5°	822.1	835.5	859.8	906.9	918.5
165°	838.0	848.8	862.0	897.2	902.6
167.5°	849.1	857.4	863.8	889.0	890.4
170°	856.5	861.9	863.8	886.0	886.0
172.5°	862.4	864.9	863.8	881.5	880.1
175°	867.5	869.3	863.8	874.9	873.1
177.5°	869.0	869.0	863.1	871.9	869.0
180°	867.5	867.5	867.5	867.5	867.5

(END OF REPORT)