

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: P564111

Luminaire Tested: **SQ4-PR1-075U-100D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564111  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-100D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

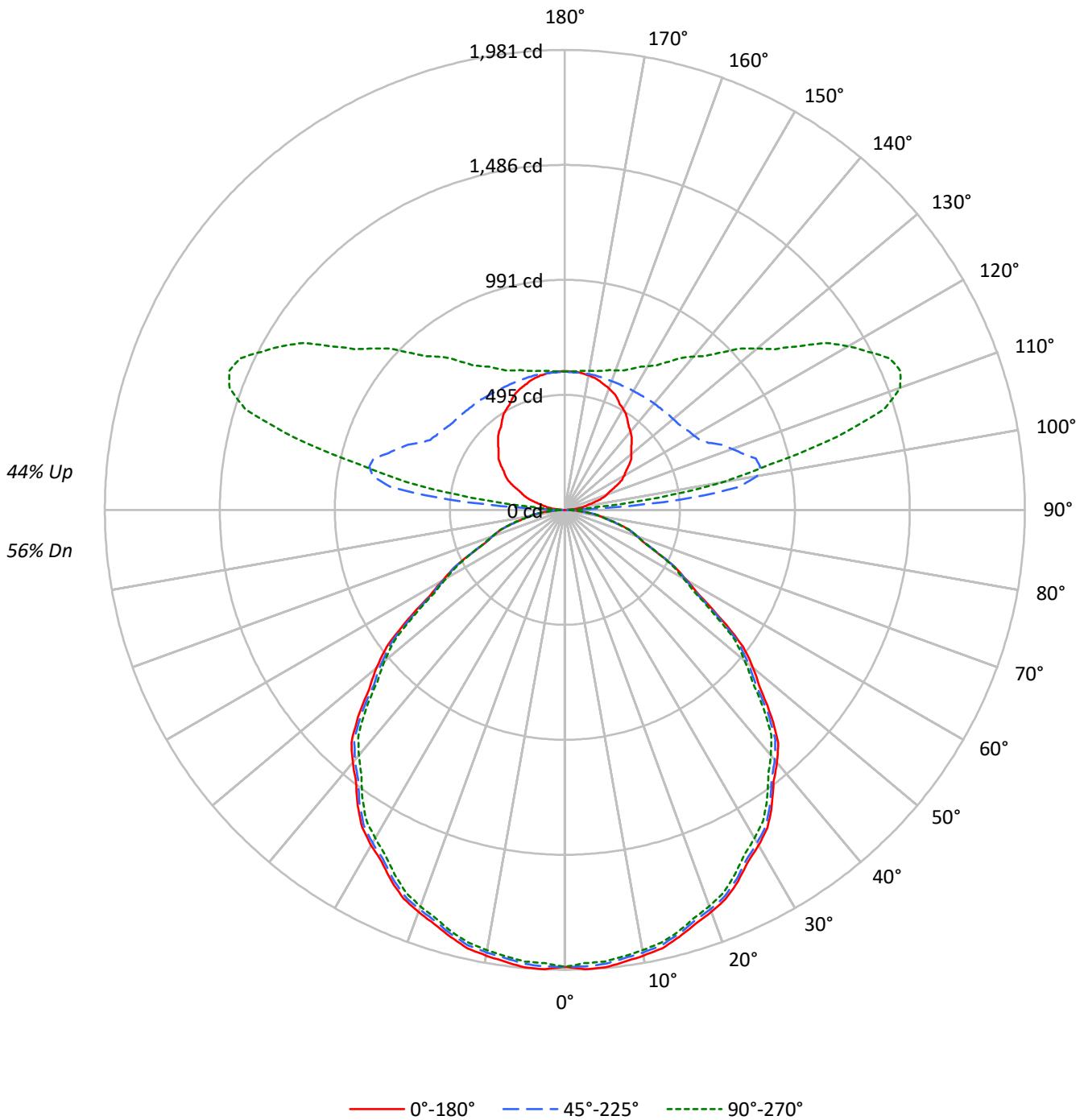
Lumens per Lamp: N/A  
Luminaire Lumens: 8804.6 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 82.9  
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	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	64	62	55	54	53	48
2	91	84	77	72	84	78	73	68	67	63	60	58	55	52	49	47	45	41
3	83	74	66	61	77	69	62	57	60	55	51	51	48	45	43	41	38	35
4	76	65	58	52	71	61	54	49	53	48	44	46	42	38	39	36	33	30
5	70	58	50	44	65	55	48	42	48	42	38	41	37	33	35	32	29	26
6	65	53	44	39	60	49	42	37	43	37	33	37	33	29	32	29	26	23
7	60	47	40	34	55	45	37	32	39	33	29	34	30	26	29	26	23	21
8	55	43	35	30	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15

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

	0°	45°	90°
0°	12108	12108	12108
5°	12216	12123	12060
10°	12178	12094	12030
15°	12124	12049	11984
20°	12063	11986	11897
25°	11978	11898	11760
30°	11850	11765	11597
35°	11675	11572	11407
40°	11408	11286	11081
45°	10944	10751	10530
50°	10124	9881	9686
55°	8836	8637	8454
60°	7446	7383	7237
65°	6440	6465	6415
70°	5915	5945	5945
75°	5682	5682	5723
80°	5345	5405	5345
85°	4305	4785	4785



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.1	2.1
10°-20°	532.6	6.0
20°-30°	803.3	9.1
30°-40°	957.1	10.9
40°-50°	943.7	10.7
50°-60°	721.2	8.2
60°-70°	446.3	5.1
70°-80°	253.5	2.9
80°-90°	78.6	0.9
90°-100°	281.1	3.2
100°-110°	773.3	8.8
110°-120°	798.1	9.1
120°-130°	639.5	7.3
130°-140°	502.3	5.7
140°-150°	384.9	4.4
150°-160°	276.7	3.1
160°-170°	169.2	1.9
170°-180°	57.0	0.6
0°-30°	1522.0	17.3
0°-40°	2479.2	28.2
0°-60°	4144.0	47.1
0°-90°	4922.5	55.9
90°-120°	1852.5	21.0
90°-150°	3379.1	38.4
90°-180°	3882.0	44.1
0°-180°	8804.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1968	1968	1968	1968	1968	
5°	1979	1957	1963	1956	1953	188
15°	1904	1884	1892	1885	1882	537
25°	1765	1744	1753	1734	1733	812
35°	1555	1536	1541	1521	1519	970
45°	1258	1242	1236	1214	1211	964
55°	824	811	805	792	788	738
65°	442	439	444	441	441	448
75°	239	239	239	241	241	252
85°	61	64	68	68	68	71
90°	1	5	9	11	11	5
95°	42	153	497	212	136	44
105°	138	213	852	1298	1211	146
115°	245	298	683	1361	1544	241
125°	337	384	620	1049	1229	301
135°	407	452	602	848	960	314
145°	470	503	593	723	778	295
155°	532	550	590	650	668	245
165°	576	583	592	616	620	162
175°	596	597	593	601	600	57
180°	596	596	596	596	596	

TEST NUMBER: P564111

CATALOG NUMBER: SQ4-PR1-075U-100D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1968.5	1968.5	1968.5	1968.5	1968.5
2.5°	1980.7	1963.4	1968.5	1964.2	1954.9
5°	1978.6	1957.1	1963.4	1956.5	1953.2
7.5°	1963.4	1942.2	1948.5	1941.6	1939.6
10°	1949.8	1929.9	1936.3	1929.4	1926.1
12.5°	1934.9	1913.7	1921.3	1913.1	1909.8
15°	1904.0	1884.1	1892.2	1885.3	1882.0
17.5°	1870.1	1848.9	1856.9	1849.0	1844.7
20°	1843.0	1823.1	1831.1	1819.2	1817.6
22.5°	1813.2	1793.3	1801.3	1785.3	1785.0
25°	1765.0	1743.5	1753.1	1734.5	1732.8
27.5°	1707.7	1687.8	1695.8	1676.8	1674.8
30°	1668.4	1648.5	1656.5	1636.1	1632.8
32.5°	1623.6	1605.0	1611.7	1591.3	1589.4
35°	1554.8	1536.5	1541.2	1520.8	1519.2
37.5°	1476.4	1459.9	1462.5	1440.1	1438.5
40°	1420.8	1404.2	1405.6	1381.8	1380.1
42.5°	1359.8	1343.2	1341.8	1318.0	1316.4
45°	1258.1	1241.5	1236.0	1213.9	1210.6
47.5°	1142.1	1125.5	1115.3	1097.3	1094.9
50°	1058.0	1041.4	1032.6	1017.2	1012.2
52.5°	967.1	950.5	943.0	929.0	924.0
55°	824.0	810.7	805.4	791.7	788.4
57.5°	688.0	679.1	677.5	664.3	662.9
60°	605.3	600.3	600.2	588.3	588.3
62.5°	534.8	531.1	533.7	525.9	524.6
65°	442.5	439.2	444.2	440.8	440.8
67.5°	369.6	369.6	372.7	371.3	371.3
70°	328.9	328.9	330.6	330.6	330.6
72.5°	292.3	291.0	295.4	295.3	294.0
75°	239.1	239.1	239.1	240.8	240.8
77.5°	186.2	186.5	187.9	187.5	186.2
80°	150.9	152.6	152.6	150.9	150.9
82.5°	115.6	117.3	117.3	117.0	115.6
85°	61.0	64.4	67.8	67.8	67.8
87.5°	17.9	23.9	28.9	29.4	28.1
90°	1.3	5.0	8.9	11.4	11.4
92.5°	17.5	74.8	129.6	49.8	40.8
95°	41.8	153.4	497.0	212.5	135.7
97.5°	68.2	170.1	758.5	584.4	412.3
100°	87.5	180.5	840.6	848.5	692.3
102.5°	105.7	192.8	861.9	1052.6	909.3
105°	138.2	212.6	852.0	1297.6	1210.8
107.5°	169.1	237.1	803.6	1417.6	1443.4
110°	191.5	253.4	767.1	1447.4	1536.7



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CATALOG NUMBER: SQ4-PR1-075U-100D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	211.7	271.7	730.6	1428.2	1564.1
115°	244.7	298.0	683.4	1360.8	1544.3
117.5°	276.1	325.2	653.5	1266.3	1473.8
120°	295.4	342.5	640.3	1195.4	1409.9
122.5°	312.7	359.8	631.2	1133.3	1336.9
125°	337.3	384.4	620.0	1048.8	1228.6
127.5°	360.6	405.5	612.6	978.3	1136.0
130°	372.8	418.6	608.6	936.4	1080.2
132.5°	387.0	432.8	605.5	899.6	1029.5
135°	407.0	451.6	602.2	848.2	959.8
137.5°	425.8	467.2	599.5	806.7	898.7
140°	440.0	478.4	598.4	779.1	862.2
142.5°	452.1	487.6	596.4	754.5	825.6
145°	470.4	502.6	593.4	722.7	778.5
147.5°	489.9	517.7	591.9	694.5	739.2
150°	502.1	526.9	590.8	679.1	713.8
152.5°	513.2	536.1	589.8	665.8	694.5
155°	532.5	549.9	589.6	649.6	668.2
157.5°	546.5	560.6	589.6	636.3	649.2
160°	556.6	567.8	589.6	629.1	639.0
162.5°	564.7	573.9	590.6	623.0	630.9
165°	575.6	583.1	592.1	616.3	620.0
167.5°	583.2	588.9	593.4	610.6	611.6
170°	588.3	592.0	593.4	608.6	608.6
172.5°	592.4	594.1	593.4	605.5	604.5
175°	595.9	597.1	593.4	601.0	599.7
177.5°	596.9	596.9	592.9	598.9	596.9
180°	595.9	595.9	595.9	595.9	595.9

(END OF REPORT)