

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: P564783

Luminaire Tested: **SQ4-PW1-075U-100D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564783  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-075U-100D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

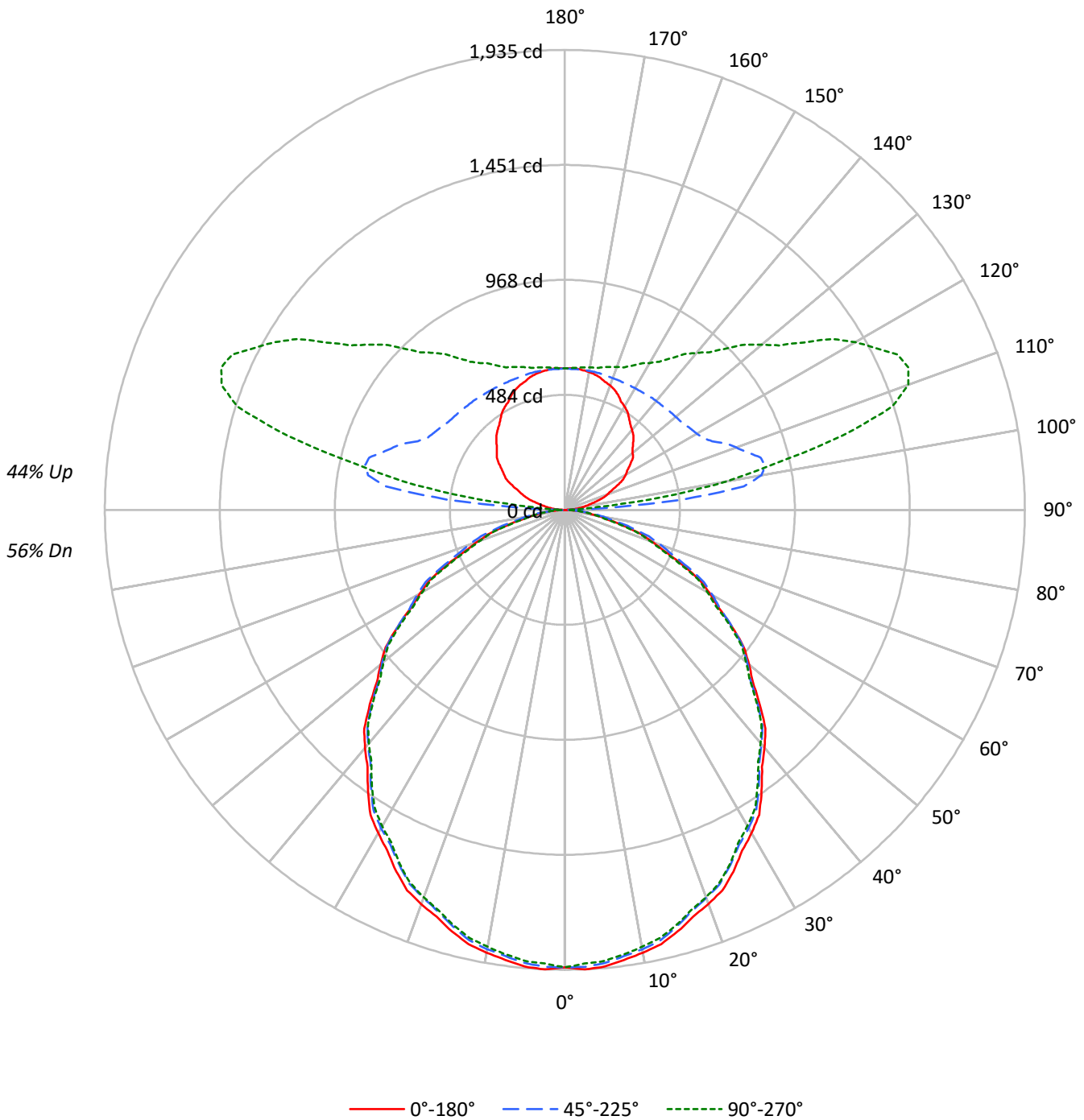
Lumens per Lamp: N/A  
Luminaire Lumens: 8779.8 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

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	73	73	73	61	61	61	56
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	55	53	52	47
2	90	83	77	72	84	77	72	67	67	63	59	57	54	51	48	46	44	40
3	83	73	66	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	60	53	48	52	47	43	45	41	37	38	35	32	29
5	69	58	49	43	64	54	47	41	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	28	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	29	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	28	24	44	34	27	22	30	24	20	26	21	18	22	19	16	14

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

	0°	45°	90°
0°	11837	11837	11837
5°	11913	11819	11766
10°	11818	11723	11659
15°	11693	11563	11520
20°	11553	11376	11353
25°	11391	11184	11150
30°	11151	10982	10910
35°	10834	10681	10617
40°	10496	10333	10292
45°	10088	9955	9911
50°	9669	9588	9524
55°	9218	9218	9073
60°	8655	8823	8510
65°	7922	8316	7724
70°	6983	7654	6800
75°	5963	6849	5803
80°	4626	5767	4683
85°	2992	4425	3952



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.2	2.1
10°-20°	511.6	5.8
20°-30°	758.9	8.6
30°-40°	888.0	10.1
40°-50°	884.0	10.1
50°-60°	763.4	8.7
60°-70°	549.5	6.3
70°-80°	288.2	3.3
80°-90°	73.0	0.8
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	3.2
160°-170°	169.2	1.9
170°-180°	57.0	0.6
0°-30°	1451.7	16.5
0°-40°	2339.7	26.6
0°-60°	3987.1	45.4
0°-90°	4897.7	55.8
90°-120°	1852.5	21.1
90°-150°	3379.1	38.5
90°-180°	3882.0	44.2
0°-180°	8779.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1924	1924	1924	1924	1924	
5°	1930	1908	1914	1909	1906	183
15°	1836	1813	1816	1812	1809	518
25°	1678	1650	1648	1638	1643	772
35°	1443	1423	1422	1409	1414	902
45°	1160	1150	1144	1141	1139	895
55°	860	858	860	848	846	767
65°	544	561	571	549	531	539
75°	251	274	288	269	244	269
85°	42	56	63	59	56	56
90°	1	5	9	11	11	4
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	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1924.4	1924.4	1924.4	1924.4	1924.4
2.5°	1935.2	1919.3	1924.4	1920.1	1910.8
5°	1929.5	1907.9	1914.2	1909.1	1905.7
7.5°	1909.8	1889.9	1894.5	1889.1	1887.1
10°	1892.2	1872.3	1876.9	1870.1	1866.7
12.5°	1871.8	1850.6	1855.2	1848.4	1846.4
15°	1836.2	1813.0	1815.9	1812.4	1809.1
17.5°	1794.9	1771.3	1771.8	1766.4	1765.7
20°	1765.0	1740.1	1737.9	1731.2	1734.5
22.5°	1732.5	1706.3	1704.0	1694.6	1699.2
25°	1678.5	1650.4	1648.0	1638.0	1642.9
27.5°	1616.1	1588.3	1588.3	1574.2	1579.5
30°	1570.0	1543.5	1546.3	1529.5	1536.1
32.5°	1521.2	1497.3	1498.8	1482.0	1488.6
35°	1442.9	1423.0	1422.5	1409.1	1414.0
37.5°	1362.8	1345.3	1342.5	1334.7	1336.1
40°	1307.2	1292.3	1286.9	1281.8	1281.8
42.5°	1248.9	1235.3	1229.9	1226.2	1224.8
45°	1159.7	1149.8	1144.5	1141.0	1139.4
47.5°	1071.6	1062.3	1057.7	1055.2	1053.6
50°	1010.5	1003.9	1002.0	996.9	995.3
52.5°	949.5	945.5	943.7	937.2	935.6
55°	859.6	858.0	859.6	847.7	846.1
57.5°	766.0	768.7	774.2	758.1	754.2
60°	703.6	710.3	717.2	698.4	691.8
62.5°	639.9	650.5	660.2	638.7	629.4
65°	544.3	560.8	571.4	548.9	530.7
67.5°	452.0	472.6	485.3	461.0	440.5
70°	388.3	411.5	425.6	401.3	378.1
72.5°	332.7	358.5	370.0	347.0	323.8
75°	250.9	274.1	288.2	269.0	244.2
77.5°	178.0	199.9	211.6	194.9	174.3
80°	130.6	153.8	162.8	148.8	132.2
82.5°	92.6	111.8	118.0	109.6	98.3
85°	42.4	55.7	62.7	59.3	56.0
87.5°	11.1	21.1	27.5	28.1	29.4
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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**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)