

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: P564772

Luminaire Tested: **SQ4-PW1-075U-100D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564772  
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-840-1D-UNV-STD-W-8  
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, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

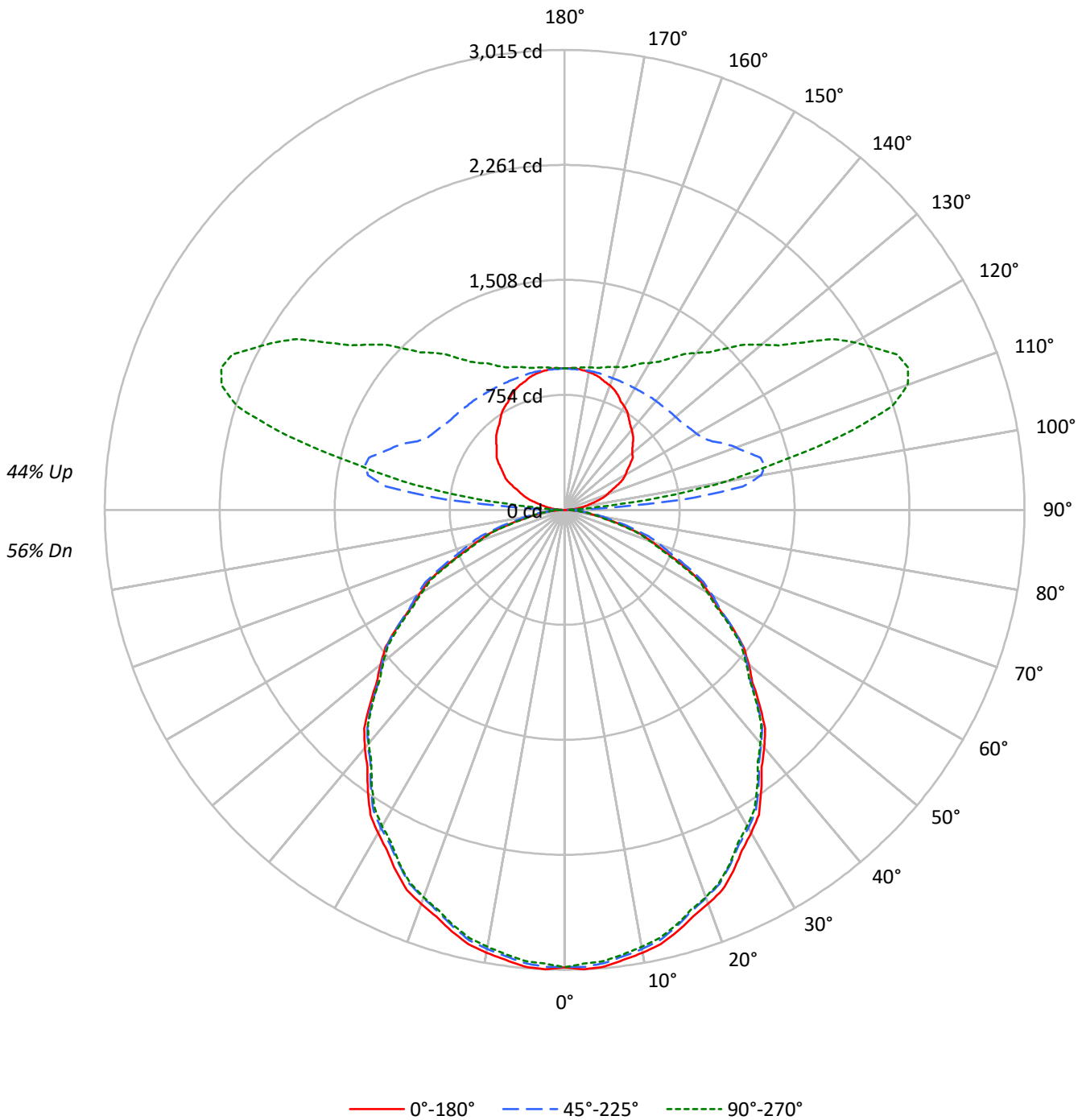
Lumens per Lamp: N/A  
Luminaire Lumens: 13677.7 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 108.3  
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°	13830	13830	13830
5°	13919	13809	13748
10°	13808	13697	13622
15°	13662	13510	13460
20°	13499	13291	13265
25°	13310	13068	13028
30°	13029	12832	12747
35°	12659	12480	12406
40°	12264	12073	12025
45°	11787	11631	11580
50°	11298	11203	11127
55°	10771	10771	10600
60°	10114	10308	9943
65°	9255	9716	9024
70°	8159	8942	7944
75°	6967	8003	6780
80°	5403	6737	5473
85°	3493	5171	4615



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.3	2.1
10°-20°	797.0	5.8
20°-30°	1182.2	8.6
30°-40°	1383.3	10.1
40°-50°	1377.2	10.1
50°-60°	1189.2	8.7
60°-70°	856.0	6.3
70°-80°	448.9	3.3
80°-90°	113.7	0.8
90°-100°	437.9	3.2
100°-110°	1204.6	8.8
110°-120°	1243.4	9.1
120°-130°	996.2	7.3
130°-140°	782.5	5.7
140°-150°	599.6	4.4
150°-160°	431.1	3.2
160°-170°	263.6	1.9
170°-180°	88.9	0.6
0°-30°	2261.6	16.5
0°-40°	3644.9	26.6
0°-60°	6211.3	45.4
0°-90°	7629.9	55.8
90°-120°	2885.9	21.1
90°-150°	5264.2	38.5
90°-180°	6048.0	44.2
0°-180°	13677.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2998	2998	2998	2998	2998	
5°	3006	2972	2982	2974	2969	285
15°	2861	2824	2829	2824	2818	806
25°	2615	2571	2567	2552	2560	1202
35°	2248	2217	2216	2195	2203	1405
45°	1807	1791	1783	1778	1775	1394
55°	1339	1337	1339	1321	1318	1195
65°	848	874	890	855	827	840
75°	391	427	449	419	380	419
85°	66	87	98	92	87	87
90°	2	8	14	18	18	7
95°	65	239	774	331	211	69
105°	215	331	1327	2022	1886	227
115°	381	464	1065	2120	2406	376
125°	525	599	966	1634	1914	469
135°	634	704	938	1321	1495	489
145°	733	783	924	1126	1213	460
155°	830	857	918	1012	1041	381
165°	897	908	922	960	966	253
175°	928	930	924	936	934	88
180°	928	928	928	928	928	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2998.0	2998.0	2998.0	2998.0	2998.0
2.5°	3014.9	2990.1	2998.0	2991.3	2976.8
5°	3005.9	2972.3	2982.1	2974.1	2968.9
7.5°	2975.2	2944.2	2951.5	2942.9	2939.8
10°	2947.8	2916.8	2924.0	2913.3	2908.1
12.5°	2916.1	2883.0	2890.2	2879.5	2876.5
15°	2860.6	2824.4	2828.9	2823.5	2818.3
17.5°	2796.2	2759.5	2760.2	2751.8	2750.7
20°	2749.7	2710.9	2707.4	2697.0	2702.1
22.5°	2699.0	2658.1	2654.6	2639.9	2647.2
25°	2615.0	2571.0	2567.4	2551.7	2559.5
27.5°	2517.8	2474.4	2474.4	2452.4	2460.7
30°	2445.9	2404.6	2408.9	2382.7	2393.1
32.5°	2369.8	2332.6	2335.0	2308.8	2319.1
35°	2247.8	2216.8	2216.1	2195.2	2202.9
37.5°	2123.1	2095.8	2091.4	2079.3	2081.4
40°	2036.5	2013.3	2004.8	1996.9	1996.9
42.5°	1945.6	1924.5	1916.0	1910.2	1908.1
45°	1806.7	1791.2	1782.9	1777.6	1775.0
47.5°	1669.3	1654.9	1647.7	1643.9	1641.3
50°	1574.3	1563.9	1561.0	1553.1	1550.5
52.5°	1479.2	1473.0	1470.2	1460.1	1457.5
55°	1339.2	1336.6	1339.2	1320.6	1318.0
57.5°	1193.4	1197.5	1206.0	1181.1	1174.9
60°	1096.2	1106.5	1117.3	1088.0	1077.7
62.5°	996.9	1013.4	1028.5	994.9	980.5
65°	847.9	873.7	890.1	855.2	826.7
67.5°	704.2	736.2	756.0	718.3	686.2
70°	604.9	641.0	663.0	625.2	589.0
72.5°	518.2	558.5	576.3	540.7	504.5
75°	390.9	427.1	449.0	419.1	380.4
77.5°	277.3	311.4	329.6	303.6	271.5
80°	203.4	239.5	253.6	231.9	206.0
82.5°	144.2	174.2	183.8	170.8	153.2
85°	66.0	86.7	97.7	92.3	87.2
87.5°	17.3	32.9	42.9	43.8	45.8
90°	2.0	7.8	13.8	17.8	17.8
92.5°	27.3	116.5	201.9	77.5	63.6
95°	65.2	239.0	774.3	331.1	211.3
97.5°	106.3	265.0	1181.6	910.4	642.3
100°	136.3	281.1	1309.6	1321.8	1078.5
102.5°	164.7	300.3	1342.7	1639.9	1416.6
105°	215.3	331.2	1327.3	2021.5	1886.3
107.5°	263.5	369.3	1251.9	2208.4	2248.6
110°	298.3	394.8	1195.0	2254.9	2394.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	329.9	423.3	1138.1	2224.9	2436.6
115°	381.2	464.3	1064.6	2120.0	2405.8
117.5°	430.2	506.7	1018.0	1972.7	2296.0
120°	460.2	533.6	997.5	1862.3	2196.4
122.5°	487.1	560.5	983.3	1765.5	2082.7
125°	525.4	598.8	965.9	1633.9	1914.0
127.5°	561.7	631.7	954.4	1524.1	1769.8
130°	580.7	652.2	948.1	1458.8	1682.9
132.5°	602.8	674.3	943.4	1401.5	1603.9
135°	634.0	703.6	938.2	1321.4	1495.2
137.5°	663.3	727.8	933.9	1256.7	1400.0
140°	685.4	745.3	932.3	1213.7	1343.1
142.5°	704.4	759.6	929.1	1175.4	1286.3
145°	732.8	783.0	924.4	1125.9	1212.8
147.5°	763.2	806.5	922.0	1082.0	1151.5
150°	782.2	820.8	920.4	1058.0	1112.0
152.5°	799.6	835.1	918.9	1037.2	1082.0
155°	829.6	856.6	918.5	1012.0	1040.9
157.5°	851.3	873.3	918.5	991.2	1011.3
160°	867.1	884.5	918.5	980.1	995.5
162.5°	879.8	894.0	920.1	970.5	982.9
165°	896.7	908.3	922.4	960.1	965.9
167.5°	908.6	917.5	924.4	951.3	952.8
170°	916.5	922.3	924.4	948.1	948.1
172.5°	922.8	925.5	924.4	943.3	941.8
175°	928.3	930.3	924.4	936.2	934.3
177.5°	929.9	929.9	923.6	933.0	929.9
180°	928.3	928.3	928.3	928.3	928.3

(END OF REPORT)