

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: P564770

Luminaire Tested: **SQ4-PW1-075U-100D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564770  
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-4  
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**

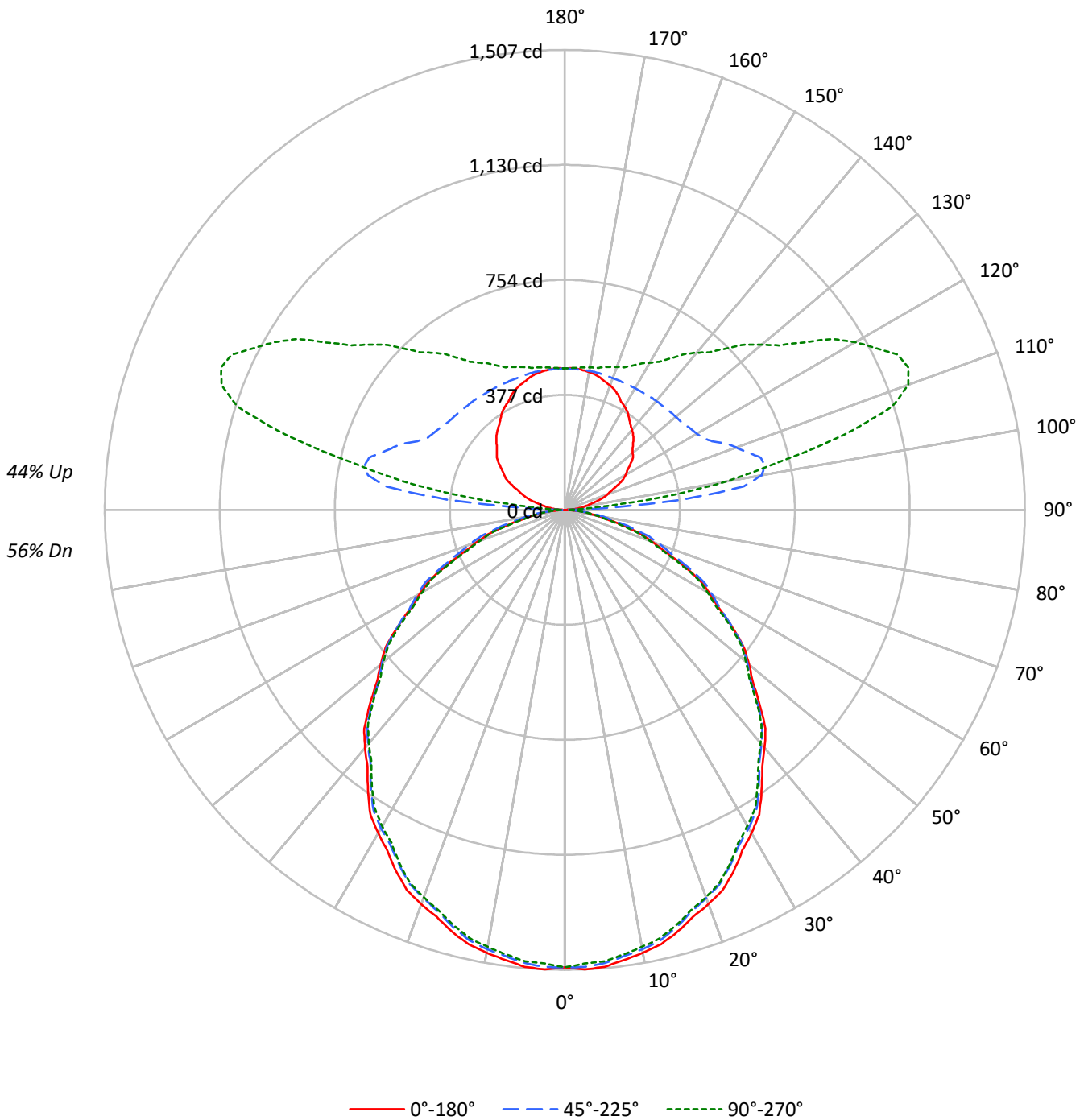
Lumens per Lamp: N/A  
Luminaire Lumens: 6838.9 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 51.3  
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	13810	13748
10°	13808	13697	13623
15°	13662	13511	13460
20°	13498	13291	13266
25°	13310	13068	13027
30°	13029	12832	12747
35°	12659	12481	12406
40°	12263	12073	12025
45°	11786	11632	11580
50°	11298	11203	11127
55°	10771	10771	10600
60°	10114	10308	9942
65°	9254	9717	9025
70°	8157	8942	7944
75°	6969	8003	6780
80°	5403	6737	5473
85°	3493	5176	4615



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.2	2.1
10°-20°	398.5	5.8
20°-30°	591.1	8.6
30°-40°	691.7	10.1
40°-50°	688.6	10.1
50°-60°	594.6	8.7
60°-70°	428.0	6.3
70°-80°	224.5	3.3
80°-90°	56.8	0.8
90°-100°	218.9	3.2
100°-110°	602.3	8.8
110°-120°	621.7	9.1
120°-130°	498.1	7.3
130°-140°	391.2	5.7
140°-150°	299.8	4.4
150°-160°	215.6	3.2
160°-170°	131.8	1.9
170°-180°	44.4	0.6
0°-30°	1130.8	16.5
0°-40°	1822.5	26.6
0°-60°	3105.7	45.4
0°-90°	3815.0	55.8
90°-120°	1442.9	21.1
90°-150°	2632.1	38.5
90°-180°	3024.0	44.2
0°-180°	6838.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1499	1499	1499	1499	1499	
5°	1503	1486	1491	1487	1484	142
15°	1430	1412	1414	1412	1409	403
25°	1308	1286	1284	1276	1280	601
35°	1124	1108	1108	1098	1102	703
45°	903	896	892	889	888	697
55°	670	668	670	660	659	597
65°	424	437	445	428	413	420
75°	196	214	224	210	190	210
85°	33	43	49	46	44	44
90°	1	4	7	9	9	3
95°	33	120	387	166	106	34
105°	108	166	664	1011	943	113
115°	191	232	532	1060	1203	188
125°	263	299	483	817	957	234
135°	317	352	469	661	748	245
145°	366	392	462	563	606	230
155°	415	428	459	506	520	191
165°	448	454	461	480	483	126
175°	464	465	462	468	467	44
180°	464	464	464	464	464	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1499.0	1499.0	1499.0	1499.0	1499.0
2.5°	1507.4	1495.0	1499.0	1495.6	1488.4
5°	1502.9	1486.2	1491.1	1487.0	1484.4
7.5°	1487.6	1472.1	1475.7	1471.5	1469.9
10°	1473.9	1458.4	1462.0	1456.7	1454.1
12.5°	1458.0	1441.5	1445.1	1439.8	1438.2
15°	1430.3	1412.2	1414.5	1411.8	1409.2
17.5°	1398.1	1379.7	1380.1	1375.9	1375.4
20°	1374.8	1355.5	1353.7	1348.5	1351.1
22.5°	1349.5	1329.1	1327.3	1320.0	1323.6
25°	1307.5	1285.5	1283.7	1275.9	1279.7
27.5°	1258.9	1237.2	1237.2	1226.2	1230.3
30°	1223.0	1202.3	1204.5	1191.4	1196.5
32.5°	1184.9	1166.3	1167.5	1154.4	1159.6
35°	1123.9	1108.4	1108.1	1097.6	1101.5
37.5°	1061.6	1047.9	1045.7	1039.7	1040.7
40°	1018.2	1006.6	1002.4	998.4	998.4
42.5°	972.8	962.2	958.0	955.1	954.1
45°	903.3	895.6	891.5	888.8	887.5
47.5°	834.7	827.4	823.8	822.0	820.7
50°	787.1	782.0	780.5	776.5	775.2
52.5°	739.6	736.5	735.1	730.0	728.8
55°	669.6	668.3	669.6	660.3	659.0
57.5°	596.7	598.8	603.0	590.5	587.4
60°	548.1	553.2	558.6	544.0	538.8
62.5°	498.4	506.7	514.3	497.5	490.2
65°	423.9	436.9	445.1	427.6	413.4
67.5°	352.1	368.1	378.0	359.1	343.1
70°	302.4	320.5	331.5	312.6	294.5
72.5°	259.1	279.3	288.2	270.3	252.3
75°	195.5	213.5	224.5	209.5	190.2
77.5°	138.7	155.7	164.8	151.8	135.8
80°	101.7	119.8	126.8	115.9	103.0
82.5°	72.1	87.1	91.9	85.4	76.6
85°	33.0	43.3	48.9	46.2	43.6
87.5°	8.6	16.5	21.5	21.9	22.9
90°	1.0	3.9	6.9	8.9	8.9
92.5°	13.6	58.2	100.9	38.8	31.8
95°	32.6	119.5	387.1	165.5	105.7
97.5°	53.1	132.5	590.8	455.2	321.2
100°	68.1	140.6	654.8	660.9	539.2
102.5°	82.4	150.2	671.4	819.9	708.3
105°	107.6	165.6	663.7	1010.8	943.2
107.5°	131.7	184.7	625.9	1104.2	1124.3
110°	149.1	197.4	597.5	1127.4	1197.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	164.9	211.7	569.1	1112.5	1218.3
115°	190.6	232.1	532.3	1060.0	1202.9
117.5°	215.1	253.3	509.0	986.3	1148.0
120°	230.1	266.8	498.7	931.2	1098.2
122.5°	243.5	280.2	491.6	882.8	1041.3
125°	262.7	299.4	482.9	817.0	957.0
127.5°	280.9	315.8	477.2	762.1	884.9
130°	290.4	326.1	474.1	729.4	841.4
132.5°	301.4	337.1	471.7	700.7	801.9
135°	317.0	351.8	469.1	660.7	747.6
137.5°	331.6	363.9	466.9	628.4	700.0
140°	342.7	372.6	466.1	606.9	671.6
142.5°	352.2	379.8	464.6	587.7	643.1
145°	366.4	391.5	462.2	562.9	606.4
147.5°	381.6	403.2	461.0	541.0	575.8
150°	391.1	410.4	460.2	529.0	556.0
152.5°	399.8	417.6	459.4	518.6	541.0
155°	414.8	428.3	459.2	506.0	520.5
157.5°	425.7	436.7	459.2	495.6	505.7
160°	433.6	442.2	459.2	490.0	497.8
162.5°	439.9	447.0	460.0	485.3	491.4
165°	448.4	454.2	461.2	480.0	482.9
167.5°	454.3	458.7	462.2	475.6	476.4
170°	458.2	461.1	462.2	474.1	474.1
172.5°	461.4	462.8	462.2	471.7	470.9
175°	464.2	465.1	462.2	468.1	467.1
177.5°	465.0	465.0	461.8	466.5	465.0
180°	464.2	464.2	464.2	464.2	464.2

(END OF REPORT)