

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: P562291

Luminaire Tested: **SQ4-PW1-075U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562291  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-125D-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

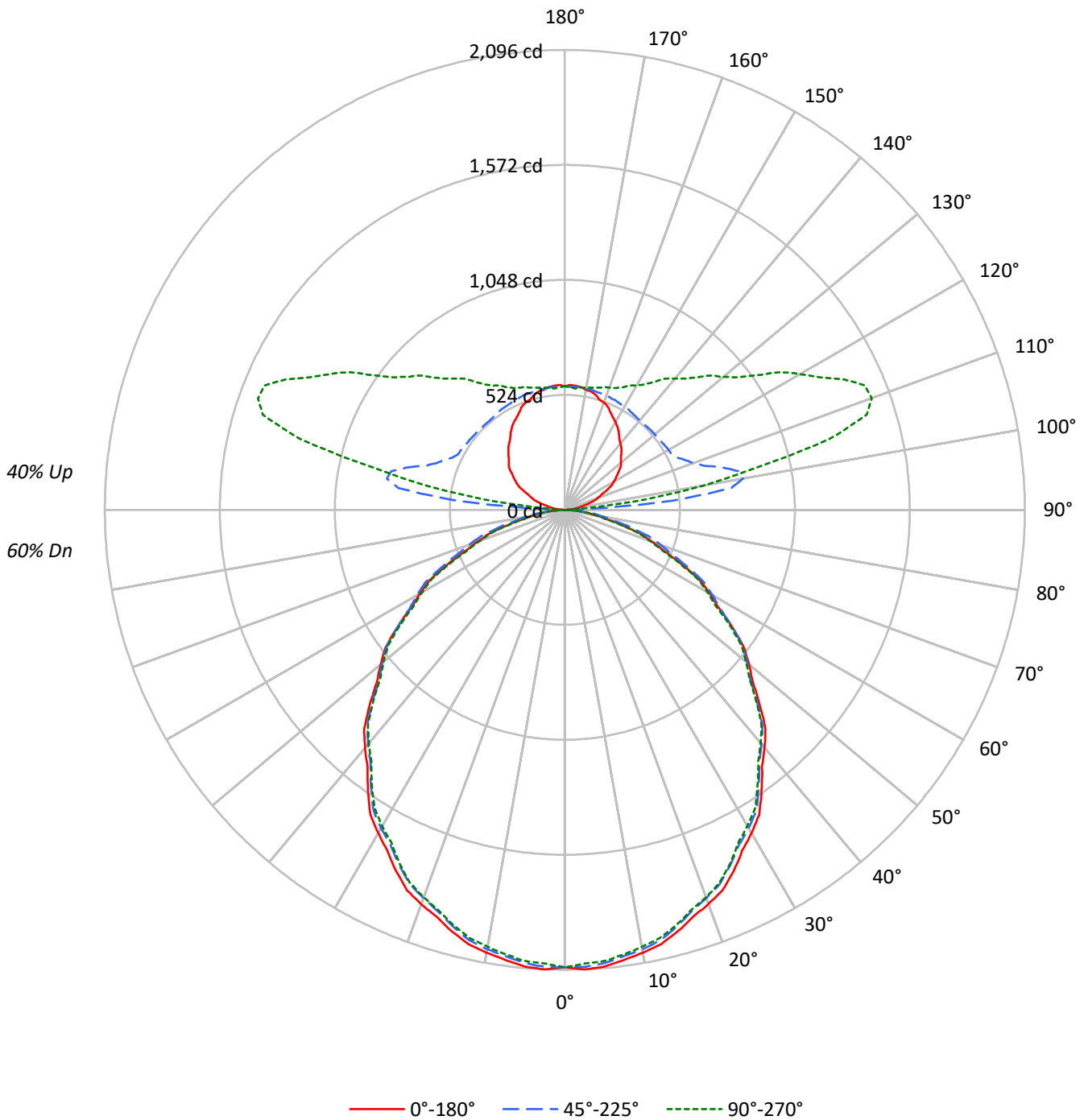
Lumens per Lamp: N/A  
Luminaire Lumens: 8803.6 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 78.9  
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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	60
1	100	96	92	88	94	90	86	83	78	76	74	68	66	64	58	57	56	51
2	91	84	78	72	85	79	73	69	69	65	61	60	57	54	51	49	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35	31
5	70	58	50	44	65	55	48	42	48	42	38	42	38	34	37	33	30	27
6	65	52	44	38	60	49	42	37	44	38	33	38	34	30	33	30	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	27	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	17	16

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

	0°	45°	90°
0°	19233	19233	19233
5°	19357	19205	19119
10°	19203	19048	18945
15°	18999	18789	18718
20°	18773	18484	18448
25°	18510	18174	18117
30°	18119	17846	17727
35°	17604	17356	17253
40°	17055	16789	16723
45°	16392	16177	16104
50°	15713	15581	15474
55°	14979	14979	14742
60°	14064	14336	13828
65°	12872	13513	12551
70°	11346	12436	11049
75°	9689	11129	9429
80°	7513	9367	7614
85°	4859	7198	6415



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.3	2.2
10°-20°	554.2	6.3
20°-30°	822.1	9.3
30°-40°	961.9	10.9
40°-50°	957.6	10.9
50°-60°	826.9	9.4
60°-70°	595.2	6.8
70°-80°	312.2	3.5
80°-90°	77.4	0.9
90°-100°	256.7	2.9
100°-110°	730.5	8.3
110°-120°	699.9	8.0
120°-130°	553.9	6.3
130°-140°	444.6	5.1
140°-150°	348.1	4.0
150°-160°	254.7	2.9
160°-170°	157.8	1.8
170°-180°	53.5	0.6
0°-30°	1572.6	17.9
0°-40°	2534.5	28.8
0°-60°	4319.1	49.1
0°-90°	5303.9	60.2
90°-120°	1687.1	19.2
90°-150°	3033.8	34.5
90°-180°	3500.0	39.8
0°-180°	8803.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2085	2085	2085	2085	2085	
5°	2090	2067	2074	2068	2064	198
15°	1989	1964	1967	1963	1960	561
25°	1818	1788	1785	1774	1780	836
35°	1563	1542	1541	1526	1532	977
45°	1256	1246	1240	1236	1234	969
55°	931	929	931	918	916	831
65°	590	608	619	595	575	584
75°	272	297	312	291	264	291
85°	46	60	68	64	61	61
90°	0	0	0	0	0	3
95°	28	111	497	172	106	32
105°	114	172	744	1315	1250	120
115°	211	255	564	1196	1404	208
125°	298	330	539	894	1069	267
135°	364	395	532	755	854	281
145°	430	452	537	654	712	268
155°	491	502	550	591	615	227
165°	542	544	556	568	576	152
175°	568	565	562	559	555	54
180°	563	563	563	563	563	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2084.6	2084.6	2084.6	2084.6	2084.6
2.5°	2096.4	2079.1	2084.6	2080.0	2069.9
5°	2090.1	2066.8	2073.6	2068.0	2064.4
7.5°	2068.8	2047.3	2052.3	2046.4	2044.2
10°	2049.7	2028.2	2033.2	2025.8	2022.2
12.5°	2027.7	2004.7	2009.7	2002.3	2000.1
15°	1989.1	1964.0	1967.1	1963.3	1959.7
17.5°	1944.3	1918.8	1919.3	1913.4	1912.7
20°	1912.0	1885.0	1882.6	1875.3	1878.9
22.5°	1876.7	1848.3	1845.9	1835.7	1840.7
25°	1818.3	1787.8	1785.3	1774.4	1779.7
27.5°	1750.7	1720.6	1720.6	1705.3	1711.1
30°	1700.8	1672.0	1675.1	1656.8	1664.0
32.5°	1647.9	1622.0	1623.6	1605.4	1612.6
35°	1563.0	1541.5	1541.0	1526.4	1531.8
37.5°	1476.3	1457.3	1454.3	1445.9	1447.3
40°	1416.1	1399.9	1394.0	1388.5	1388.5
42.5°	1352.9	1338.2	1332.3	1328.3	1326.8
45°	1256.3	1245.5	1239.8	1236.0	1234.2
47.5°	1160.8	1150.7	1145.7	1143.1	1141.3
50°	1094.7	1087.5	1085.5	1079.9	1078.1
52.5°	1028.5	1024.2	1022.3	1015.3	1013.5
55°	931.2	929.4	931.2	918.3	916.5
57.5°	829.8	832.7	838.6	821.3	817.0
60°	762.2	769.4	776.9	756.5	749.4
62.5°	693.2	704.7	715.2	691.8	681.8
65°	589.6	607.5	619.0	594.6	574.9
67.5°	489.7	511.9	525.7	499.4	477.2
70°	420.6	445.7	461.0	434.7	409.6
72.5°	360.4	388.4	400.8	375.9	350.8
75°	271.8	297.0	312.2	291.4	264.5
77.5°	192.9	216.6	229.2	211.1	188.8
80°	141.4	166.6	176.3	161.2	143.3
82.5°	100.3	121.1	127.8	118.7	106.5
85°	45.9	60.3	68.0	64.2	60.6
87.5°	11.8	21.8	27.9	28.0	29.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.6	45.4	105.4	30.7	23.1
95°	27.8	110.6	497.0	172.0	106.0
97.5°	51.2	129.5	765.4	547.7	375.3
100°	67.5	140.8	823.7	834.3	642.7
102.5°	85.5	152.9	810.8	1068.0	900.6
105°	113.5	172.2	744.4	1314.9	1250.0
107.5°	142.0	194.6	666.9	1384.6	1442.4
110°	161.7	211.0	622.3	1357.9	1487.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	180.6	227.3	592.3	1294.9	1480.1
115°	211.0	255.0	564.5	1195.8	1404.3
117.5°	237.8	279.1	548.0	1087.5	1308.3
120°	259.2	293.8	546.3	1025.6	1237.2
122.5°	276.4	310.9	542.0	971.3	1167.7
125°	297.8	330.2	538.8	894.1	1069.0
127.5°	321.1	351.5	537.1	848.0	992.1
130°	333.1	363.5	534.5	815.8	941.5
132.5°	346.0	375.5	534.5	790.8	906.4
135°	364.2	394.6	532.4	755.2	853.7
137.5°	381.3	410.9	532.1	725.2	810.2
140°	394.2	424.5	531.3	700.2	781.9
142.5°	408.7	434.1	533.9	680.3	753.6
145°	429.5	451.5	536.6	653.7	712.3
147.5°	447.3	468.7	541.4	626.7	677.4
150°	462.7	477.4	543.1	617.8	653.4
152.5°	474.7	490.2	544.8	605.7	638.8
155°	490.6	502.1	549.5	590.7	614.8
157.5°	510.3	517.2	550.6	583.9	601.1
160°	520.6	525.8	554.8	578.7	593.4
162.5°	526.6	532.6	555.7	574.4	585.7
165°	542.0	544.1	555.9	567.9	576.3
167.5°	552.5	550.6	560.8	566.3	569.6
170°	555.9	554.9	559.1	560.3	564.5
172.5°	563.6	560.1	561.7	558.6	561.9
175°	567.7	564.6	562.3	559.0	554.8
177.5°	569.4	564.4	561.7	558.3	559.1
180°	563.4	563.4	563.4	563.4	563.4

(END OF REPORT)