

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: P563638

Luminaire Tested: **SQ4-PP3-100U-125D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563638  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-100U-125D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

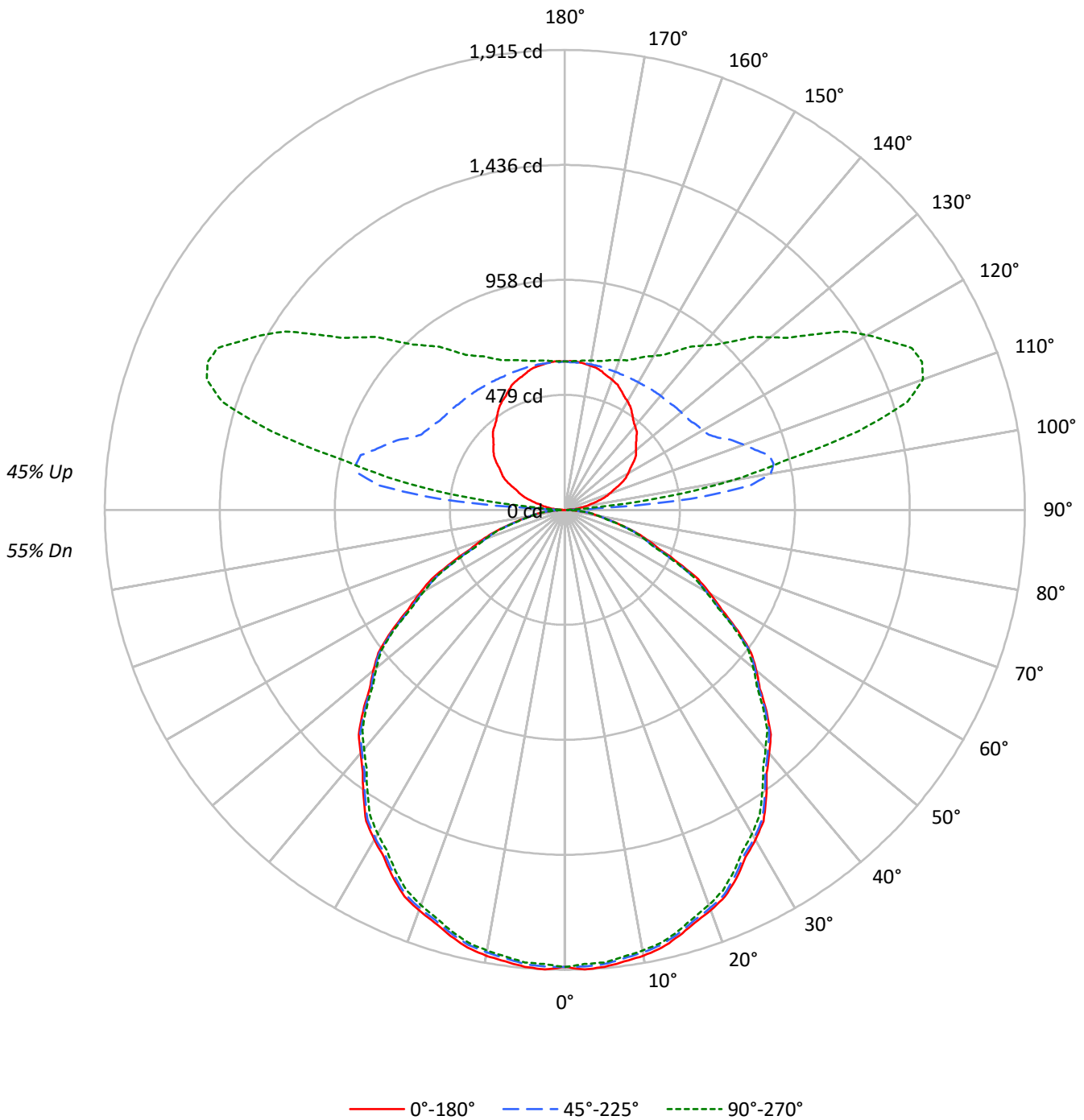
Lumens per Lamp: N/A  
Luminaire Lumens: 8889.2 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 68.7  
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	23	20	24	21	18	16
10	48	36	28	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

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

	0°	45°	90°
0°	17561	17561	17561
5°	17690	17582	17520
10°	17660	17535	17457
15°	17544	17448	17353
20°	17427	17328	17198
25°	17219	17101	16931
30°	16901	16812	16599
35°	16459	16346	16140
40°	15933	15832	15651
45°	15497	15389	15236
50°	14940	14846	14702
55°	14168	13980	13874
60°	12898	12529	12466
65°	11363	10889	10852
70°	9811	9406	9406
75°	8445	8324	8206
80°	7444	7534	7359
85°	5833	6362	6362



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.0	2.0
10°-20°	513.9	5.8
20°-30°	769.8	8.7
30°-40°	902.9	10.2
40°-50°	905.7	10.2
50°-60°	772.7	8.7
60°-70°	503.9	5.7
70°-80°	252.8	2.8
80°-90°	71.3	0.8
90°-100°	289.5	3.3
100°-110°	799.1	9.0
110°-120°	824.2	9.3
120°-130°	662.3	7.5
130°-140°	520.5	5.9
140°-150°	399.2	4.5
150°-160°	286.9	3.2
160°-170°	175.5	2.0
170°-180°	59.2	0.7
0°-30°	1463.7	16.5
0°-40°	2366.6	26.6
0°-60°	4045.0	45.5
0°-90°	4872.9	54.8
90°-120°	1912.8	21.5
90°-150°	3494.8	39.3
90°-180°	4016.0	45.2
0°-180°	8889.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1903	1903	1903	1903	1903	
5°	1910	1892	1898	1892	1892	181
15°	1837	1819	1827	1820	1817	518
25°	1692	1672	1680	1665	1663	778
35°	1461	1447	1451	1435	1433	913
45°	1188	1180	1179	1168	1168	915
55°	881	878	869	864	862	783
65°	520	511	499	496	497	519
75°	237	237	234	232	230	257
85°	55	60	60	60	60	65
90°	2	4	8	9	10	5
95°	42	157	525	216	140	45
105°	142	220	879	1342	1264	152
115°	255	308	708	1402	1594	251
125°	350	398	642	1086	1275	312
135°	421	467	624	880	992	326
145°	489	522	616	749	806	306
155°	551	569	611	672	693	254
165°	596	604	614	638	643	168
175°	618	619	615	624	622	59
180°	618	618	618	618	618	

TEST NUMBER: P563638

CATALOG NUMBER: SQ4-PP3-100U-125D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1903.4	1903.4	1903.4	1903.4	1903.4
2.5°	1915.4	1899.7	1903.4	1900.5	1892.7
5°	1910.1	1892.1	1898.4	1891.7	1891.7
7.5°	1897.1	1877.5	1883.7	1877.0	1876.7
10°	1885.0	1865.5	1871.7	1865.0	1863.4
12.5°	1867.7	1848.1	1855.7	1847.7	1847.3
15°	1836.7	1818.7	1826.7	1819.9	1816.7
17.5°	1801.6	1782.1	1791.6	1782.3	1781.0
20°	1774.9	1755.4	1764.9	1751.6	1751.6
22.5°	1742.9	1723.3	1734.2	1716.9	1716.9
25°	1691.5	1672.0	1679.9	1664.8	1663.2
27.5°	1630.5	1611.2	1619.5	1602.4	1602.1
30°	1586.4	1568.5	1578.1	1559.7	1558.1
32.5°	1538.4	1521.8	1528.7	1510.3	1508.7
35°	1461.3	1446.6	1451.3	1434.6	1433.0
37.5°	1380.3	1365.2	1370.6	1356.2	1355.6
40°	1322.9	1313.1	1314.5	1302.8	1299.5
42.5°	1269.5	1258.4	1259.8	1248.1	1247.5
45°	1187.7	1179.6	1179.4	1167.7	1167.7
47.5°	1101.0	1094.8	1093.0	1083.3	1083.0
50°	1040.9	1036.1	1034.3	1025.9	1024.3
52.5°	978.2	975.9	970.2	963.2	962.9
55°	880.8	877.5	869.1	864.1	862.5
57.5°	775.0	768.5	759.0	751.7	753.0
60°	699.0	692.4	679.0	675.6	675.6
62.5°	625.6	617.7	604.2	599.6	602.2
65°	520.5	510.7	498.8	495.5	497.1
67.5°	425.1	416.2	403.4	403.3	402.0
70°	363.7	358.8	348.7	348.7	348.7
72.5°	308.9	306.7	299.3	299.2	297.9
75°	236.9	236.9	233.5	231.8	230.2
77.5°	177.5	178.1	176.5	174.8	171.8
80°	140.1	143.4	141.8	140.1	138.5
82.5°	105.4	108.7	108.4	105.4	105.1
85°	55.1	59.9	60.1	60.1	60.1
87.5°	15.1	20.7	22.9	23.2	24.7
90°	2.0	3.9	7.9	8.9	9.9
92.5°	17.8	73.9	132.1	48.2	37.6
95°	42.5	156.6	525.2	215.9	140.4
97.5°	70.4	175.4	778.0	599.0	433.8
100°	91.0	186.7	871.3	877.5	713.1
102.5°	110.8	199.5	889.5	1084.2	928.3
105°	142.4	219.8	879.2	1342.3	1264.0
107.5°	176.0	244.9	830.2	1466.8	1495.4
110°	199.8	261.7	792.2	1493.5	1586.4

TEST NUMBER: P563638

CATALOG NUMBER: SQ4-PP3-100U-125D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	221.1	280.7	756.6	1472.4	1609.3
115°	255.2	308.4	708.1	1401.9	1594.3
117.5°	284.8	337.8	676.3	1302.6	1521.5
120°	304.6	356.8	663.6	1235.3	1455.8
122.5°	323.6	373.5	653.3	1172.6	1381.5
125°	350.1	398.5	641.9	1086.3	1274.8
127.5°	372.7	421.0	635.1	1013.3	1175.9
130°	387.7	436.0	632.0	968.6	1116.6
132.5°	401.9	448.0	628.8	931.1	1065.2
135°	421.3	466.8	624.1	879.8	992.0
137.5°	443.1	484.5	621.7	836.7	932.4
140°	454.9	495.6	620.1	808.0	892.1
142.5°	468.4	505.9	618.5	782.4	856.5
145°	488.6	522.4	616.2	749.0	806.0
147.5°	508.0	537.5	614.0	720.8	765.1
150°	522.2	546.4	613.2	704.0	739.8
152.5°	533.3	555.9	612.4	689.6	719.2
155°	550.9	569.3	611.2	672.0	693.3
157.5°	567.1	581.2	611.4	659.2	673.7
160°	576.6	589.2	612.2	652.0	662.6
162.5°	584.5	595.5	613.0	645.6	653.9
165°	596.4	604.1	614.2	638.0	642.9
167.5°	605.5	610.1	615.2	633.4	634.9
170°	610.2	614.1	615.2	631.0	631.0
172.5°	614.2	616.5	615.2	627.8	627.0
175°	618.1	619.1	615.2	624.0	622.1
177.5°	619.7	618.9	615.0	620.5	618.9
180°	618.1	618.1	618.1	618.1	618.1

(END OF REPORT)