

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: P563614

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563614
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-100D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

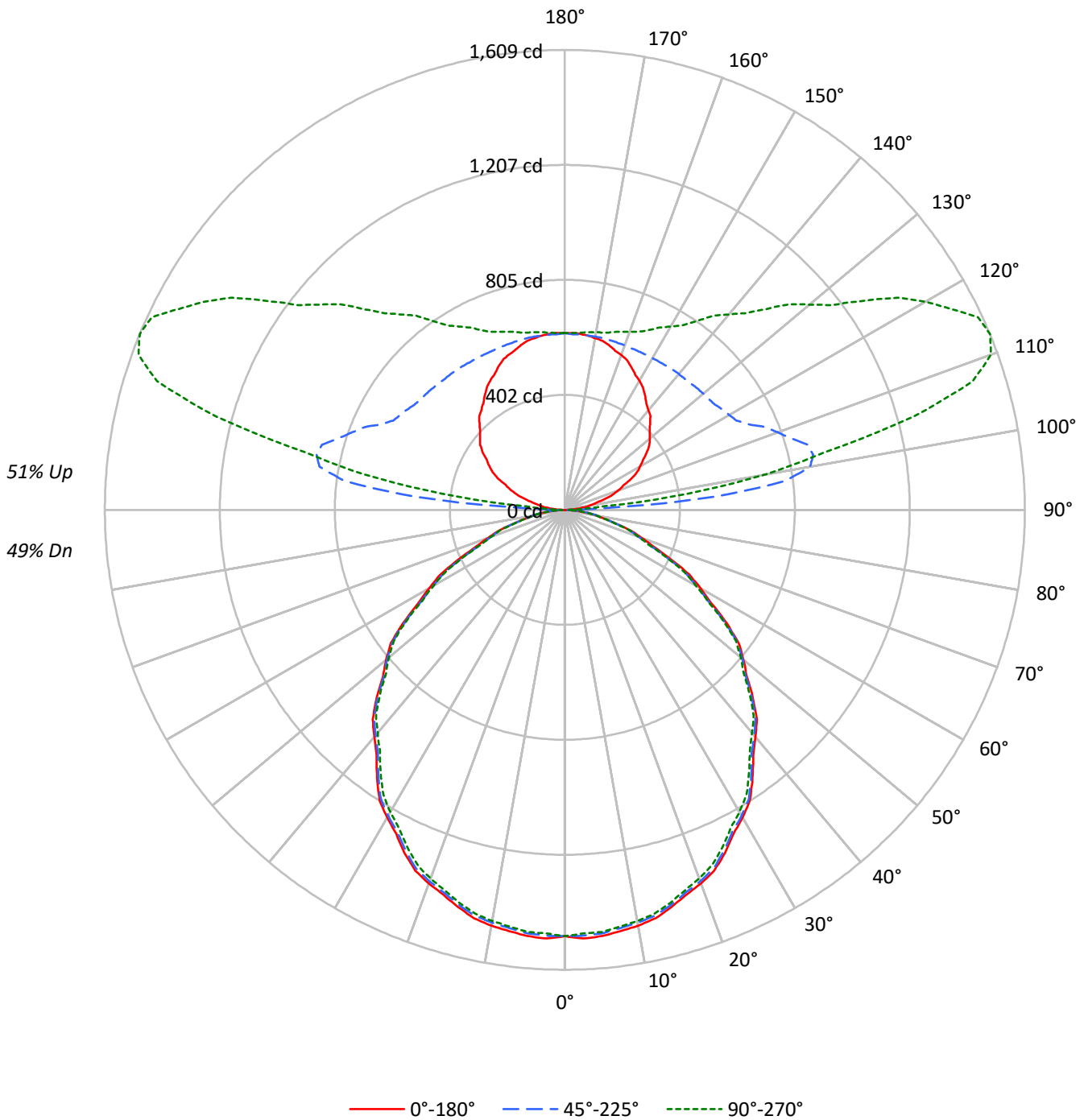
Lumens per Lamp: N/A
Luminaire Lumens: 7835.1 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57.9
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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49				
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41				
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	40	35				
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	38	36	34	30				
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22				
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	22	20	17				
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16				
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13761	13761	13761
5°	13863	13777	13729
10°	13839	13741	13680
15°	13747	13672	13598
20°	13656	13579	13477
25°	13494	13401	13268
30°	13244	13174	13007
35°	12897	12810	12647
40°	12485	12406	12264
45°	12144	12059	11940
50°	11708	11633	11520
55°	11102	10956	10871
60°	10106	9817	9769
65°	8905	8534	8505
70°	7688	7370	7370
75°	6616	6523	6431
80°	5834	5903	5765
85°	4563	4986	4986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	1.8
10°-20°	402.7	5.1
20°-30°	603.2	7.7
30°-40°	707.5	9.0
40°-50°	709.7	9.1
50°-60°	605.5	7.7
60°-70°	394.9	5.0
70°-80°	198.1	2.5
80°-90°	56.1	0.7
90°-100°	289.5	3.7
100°-110°	799.1	10.2
110°-120°	824.2	10.5
120°-130°	662.3	8.5
130°-140°	520.5	6.6
140°-150°	399.2	5.1
150°-160°	286.9	3.7
160°-170°	175.5	2.2
170°-180°	59.2	0.8
0°-30°	1147.0	14.6
0°-40°	1854.5	23.7
0°-60°	3169.7	40.5
0°-90°	3818.8	48.7
90°-120°	1912.8	24.4
90°-150°	3494.8	44.6
90°-180°	4016.0	51.3
0°-180°	7835.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1492	1492	1492	1492	1492	
5°	1497	1483	1488	1482	1482	142
15°	1439	1425	1431	1426	1424	406
25°	1326	1310	1316	1305	1303	610
35°	1145	1134	1137	1124	1123	715
45°	931	924	924	915	915	717
55°	690	688	681	677	676	613
65°	408	400	391	388	390	407
75°	186	186	183	182	180	201
85°	43	47	47	47	47	51
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: P563614

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1491.5	1491.5	1491.5	1491.5	1491.5
2.5°	1500.9	1488.7	1491.5	1489.3	1483.2
5°	1496.8	1482.7	1487.6	1482.4	1482.4
7.5°	1486.6	1471.2	1476.1	1470.9	1470.6
10°	1477.2	1461.8	1466.7	1461.4	1460.2
12.5°	1463.6	1448.2	1454.1	1447.9	1447.6
15°	1439.2	1425.2	1431.4	1426.1	1423.6
17.5°	1411.8	1396.5	1404.0	1396.6	1395.6
20°	1390.9	1375.5	1383.0	1372.6	1372.6
22.5°	1365.8	1350.4	1359.0	1345.4	1345.4
25°	1325.5	1310.2	1316.4	1304.6	1303.3
27.5°	1277.7	1262.6	1269.0	1255.7	1255.5
30°	1243.2	1229.1	1236.6	1222.2	1220.9
32.5°	1205.5	1192.5	1197.9	1183.5	1182.2
35°	1145.1	1133.6	1137.3	1124.2	1122.9
37.5°	1081.6	1069.8	1074.0	1062.8	1062.2
40°	1036.6	1029.0	1030.1	1020.9	1018.3
42.5°	994.8	986.1	987.2	978.0	977.5
45°	930.7	924.3	924.2	915.1	915.1
47.5°	862.8	857.9	856.5	848.9	848.6
50°	815.7	811.9	810.5	803.9	802.6
52.5°	766.6	764.8	760.3	754.8	754.5
55°	690.2	687.7	681.1	677.1	675.8
57.5°	607.3	602.2	594.8	589.1	590.1
60°	547.7	542.6	532.0	529.4	529.4
62.5°	490.2	484.1	473.5	469.9	471.9
65°	407.9	400.2	390.9	388.3	389.6
67.5°	333.1	326.2	316.1	316.1	315.0
70°	285.0	281.1	273.2	273.2	273.2
72.5°	242.1	240.3	234.5	234.5	233.5
75°	185.6	185.6	183.0	181.7	180.4
77.5°	139.1	139.6	138.3	136.9	134.6
80°	109.8	112.4	111.1	109.8	108.5
82.5°	82.6	85.2	85.0	82.6	82.4
85°	43.1	47.0	47.1	47.1	47.1
87.5°	11.9	16.4	18.3	18.5	19.8
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: P563614

CATALOG NUMBER: SQ4-PP3-100U-100D-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)