

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: P563230

Luminaire Tested: **SQ4-PP3-025U-100D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563230
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-100D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

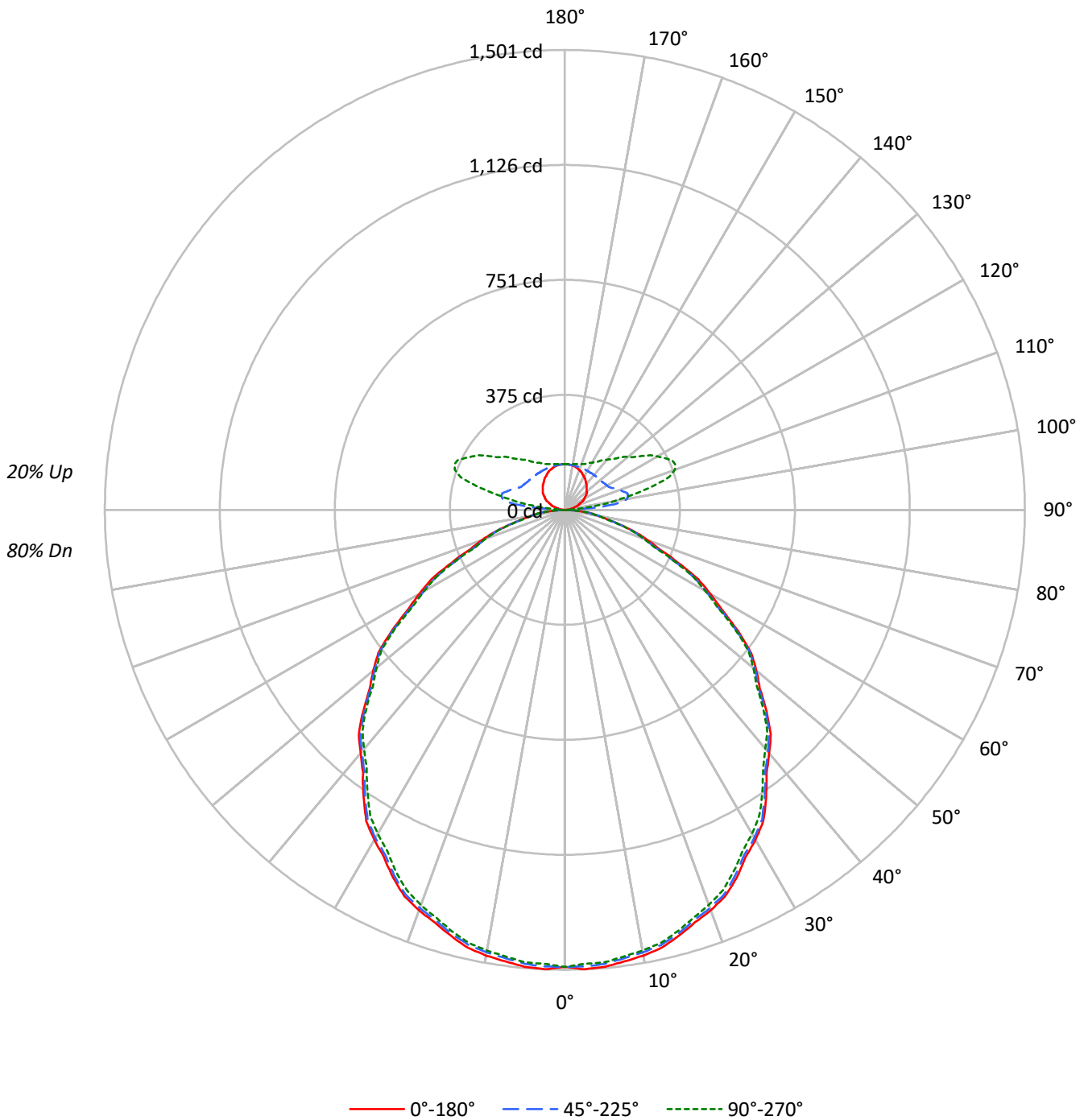
Lumens per Lamp: N/A
Luminaire Lumens: 4784.2 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.7
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	100	96	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	76	91	85	79	74	78	73	69	72	68	65	66	63	60	57
3	88	78	70	64	83	75	68	62	69	63	59	64	59	55	59	55	52	49
4	80	69	61	55	76	66	59	53	61	55	50	57	52	47	52	48	45	42
5	74	62	53	47	70	59	52	46	55	49	44	51	46	41	47	43	39	37
6	68	56	47	41	65	54	46	40	50	43	38	46	41	36	43	38	35	32
7	63	50	42	36	60	49	41	35	45	39	34	42	37	32	39	34	31	29
8	59	46	38	32	56	44	37	32	41	35	30	39	33	29	36	31	28	26
9	55	42	34	29	52	41	33	28	38	32	27	36	30	26	33	29	25	23
10	51	39	31	26	49	38	30	26	35	29	25	33	28	24	31	26	23	21

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	2.9
10°-20°	402.7	8.4
20°-30°	603.2	12.6
30°-40°	707.5	14.8
40°-50°	709.7	14.8
50°-60°	605.5	12.7
60°-70°	394.9	8.3
70°-80°	198.1	4.1
80°-90°	55.6	1.2
90°-100°	72.6	1.5
100°-110°	190.9	4.0
110°-120°	198.0	4.1
120°-130°	158.8	3.3
130°-140°	124.6	2.6
140°-150°	95.6	2.0
150°-160°	68.9	1.4
160°-170°	42.1	0.9
170°-180°	14.2	0.3
0°-30°	1147.0	24.0
0°-40°	1854.5	38.8
0°-60°	3169.7	66.3
0°-90°	3818.3	79.8
90°-120°	461.6	9.6
90°-150°	840.6	17.6
90°-180°	966.0	20.2
0°-180°	4784.2	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°	1	3	8	4	4	2
95°	10	38	125	64	44	11
105°	34	52	211	320	299	36
115°	61	74	169	337	385	60
125°	85	95	154	260	307	75
135°	101	112	149	210	238	78
145°	118	125	147	179	193	74
155°	133	136	147	162	166	61
165°	143	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	

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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°	11.7	16.2	18.3	17.5	18.5
90°	1.0	2.8	7.6	3.8	3.8
92.5°	4.0	19.3	42.8	19.0	12.2
95°	9.6	37.6	125.1	64.5	43.9
97.5°	16.6	41.3	187.2	148.9	109.7
100°	22.0	44.4	206.3	209.1	162.4
102.5°	26.6	47.5	211.7	260.5	220.5
105°	34.4	52.1	211.1	320.5	299.0
107.5°	42.4	58.9	199.1	351.7	356.9
110°	47.8	62.7	189.1	359.7	382.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	67.3	180.0	354.6	389.0
115°	61.1	74.2	169.1	337.3	385.0
117.5°	69.0	80.9	161.6	313.4	366.3
120°	73.6	84.8	158.6	297.3	348.7
122.5°	78.1	89.4	156.3	281.2	331.9
125°	85.0	95.3	153.8	259.9	306.6
127.5°	90.6	101.0	151.7	242.8	282.2
130°	93.6	104.8	150.9	232.0	268.4
132.5°	96.7	107.9	150.2	222.8	255.4
135°	101.3	111.5	149.0	209.8	237.9
137.5°	106.0	116.1	148.8	200.2	223.2
140°	109.9	119.2	148.1	192.5	214.0
142.5°	112.9	121.5	148.1	187.1	205.6
145°	117.5	125.0	147.1	179.0	193.0
147.5°	122.1	129.4	147.1	172.2	183.8
150°	125.1	131.7	147.1	168.3	177.7
152.5°	128.2	133.2	147.1	165.2	172.3
155°	132.8	136.5	147.1	161.5	166.2
157.5°	136.2	139.8	147.1	158.3	161.6
160°	138.5	141.3	147.1	156.7	158.6
162.5°	140.8	142.9	147.1	155.2	157.0
165°	143.3	145.2	147.1	152.9	154.8
167.5°	145.6	146.5	148.1	151.9	152.7
170°	147.1	148.0	148.1	151.9	151.9
172.5°	147.9	148.1	148.1	151.1	150.4
175°	149.0	149.0	148.1	150.0	150.0
177.5°	149.0	149.0	148.3	149.8	149.0
180°	149.0	149.0	149.0	149.0	149.0

(END OF REPORT)