

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: P563326

Luminaire Tested: **SQ4-PP3-050U-100D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563326
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-100D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

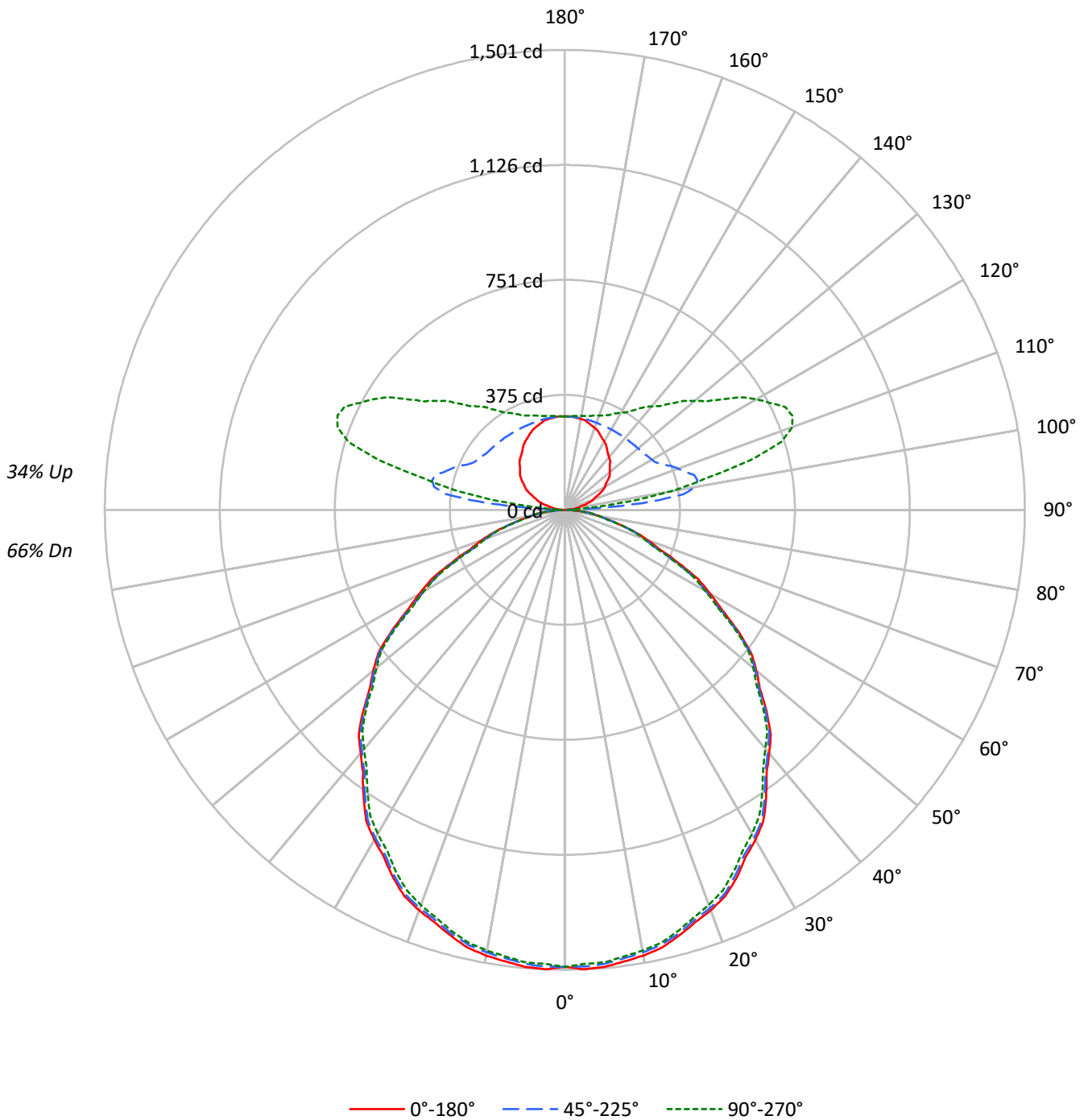
Lumens per Lamp: N/A
Luminaire Lumens: 5810.6 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.1
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	52	73	63	56	50	56	51	46	50	46	42	44	41	38	35
5	71	60	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30
6	66	54	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	21
9	53	40	33	27	50	38	31	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

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	2.4
10°-20°	402.7	6.9
20°-30°	603.2	10.4
30°-40°	707.5	12.2
40°-50°	709.7	12.2
50°-60°	605.5	10.4
60°-70°	394.9	6.8
70°-80°	198.1	3.4
80°-90°	56.0	1.0
90°-100°	146.4	2.5
100°-110°	397.8	6.8
110°-120°	409.0	7.0
120°-130°	327.0	5.6
130°-140°	257.0	4.4
140°-150°	197.0	3.4
150°-160°	141.7	2.4
160°-170°	86.7	1.5
170°-180°	29.2	0.5
0°-30°	1147.0	19.7
0°-40°	1854.5	31.9
0°-60°	3169.7	54.6
0°-90°	3818.7	65.7
90°-120°	953.3	16.4
90°-150°	1734.4	29.8
90°-180°	1992.0	34.3
0°-180°	5810.6	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	4	7	9	9	3
95°	22	80	255	111	75	23
105°	71	110	438	666	627	75
115°	126	152	350	697	794	124
125°	173	197	317	534	630	154
135°	208	231	308	435	490	161
145°	240	258	304	370	397	151
155°	272	281	302	332	341	125
165°	294	298	303	316	317	83
175°	305	306	304	308	307	29
180°	305	305	305	305	305	

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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	16.4	18.1	18.5	19.5
90°	1.0	3.9	6.9	8.8	8.8
92.5°	8.8	40.1	69.6	29.9	25.3
95°	21.6	80.1	255.0	111.0	74.6
97.5°	35.7	88.5	391.0	304.2	213.7
100°	45.1	94.0	432.6	438.5	354.1
102.5°	54.5	99.6	443.6	542.3	467.9
105°	70.6	110.0	437.5	666.1	626.8
107.5°	87.3	122.0	412.2	730.1	741.0
110°	99.1	130.7	393.4	742.7	789.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109.3	139.4	374.5	732.2	803.0
115°	125.6	152.4	350.2	696.7	793.6
117.5°	140.9	166.6	334.7	646.4	755.5
120°	151.1	176.0	327.6	612.6	721.0
122.5°	159.7	184.6	322.9	578.8	683.3
125°	172.6	196.6	316.8	533.9	629.8
127.5°	184.2	208.0	313.5	499.8	582.1
130°	191.3	214.3	311.9	478.4	552.3
132.5°	198.3	221.4	310.4	460.2	525.6
135°	208.0	231.0	308.0	434.8	490.5
137.5°	218.4	239.3	306.8	412.5	459.3
140°	224.6	244.8	306.1	398.2	440.4
142.5°	230.9	249.5	305.3	387.1	422.4
145°	240.3	257.6	304.1	369.5	397.3
147.5°	250.9	265.7	303.1	355.6	377.5
150°	258.0	270.5	303.1	347.6	364.9
152.5°	263.5	274.4	302.3	340.5	354.7
155°	271.7	281.3	302.1	331.8	341.4
157.5°	279.8	287.2	302.1	325.8	333.1
160°	284.5	291.2	302.1	321.9	327.6
162.5°	289.2	294.4	302.9	318.7	322.9
165°	294.3	298.1	303.1	315.9	316.8
167.5°	299.6	301.5	304.1	312.5	313.3
170°	301.2	303.1	304.1	311.0	311.0
172.5°	302.7	303.9	304.1	309.4	309.4
175°	305.1	306.0	304.1	308.0	307.0
177.5°	305.9	305.9	303.5	306.6	305.1
180°	305.1	305.1	305.1	305.1	305.1

(END OF REPORT)