

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: P563303

Luminaire Tested: **SQ4-PP3-050U-075D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563303
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-075D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

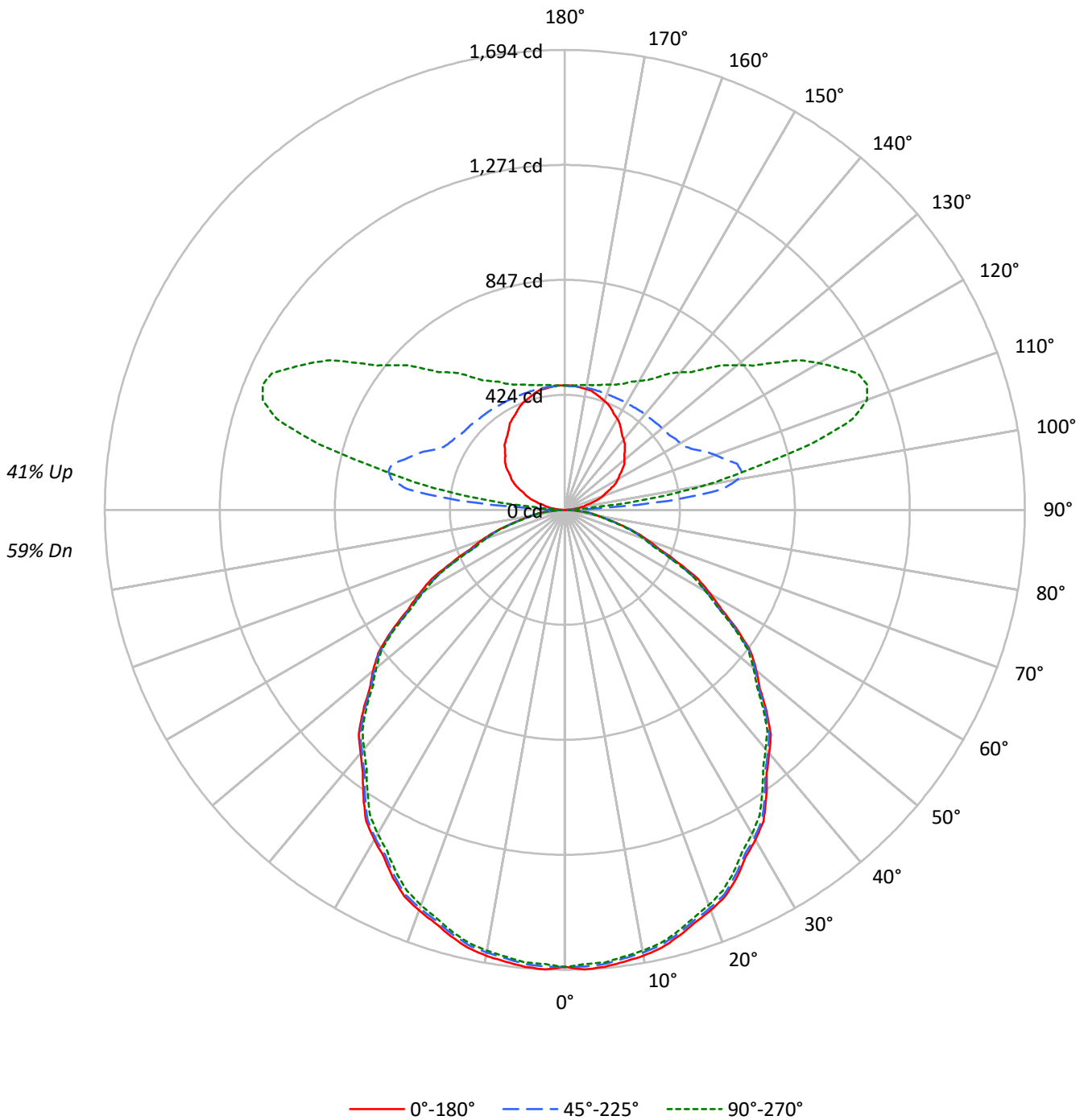
Lumens per Lamp: N/A
Luminaire Lumens: 7299.3 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.5
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	90	86	83	78	75	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	64	61	59	56	54	51	49	47	42
3	83	74	67	61	78	69	63	58	61	56	51	53	49	46	45	42	40	36
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31
5	70	58	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27
6	65	53	44	38	60	49	42	37	44	38	33	38	33	30	33	29	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	26	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	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10357	10357	10357
5°	10433	10369	10333
10°	10415	10342	10295
15°	10346	10290	10234
20°	10278	10220	10142
25°	10156	10086	9985
30°	9967	9916	9789
35°	9707	9640	9519
40°	9397	9337	9230
45°	9140	9076	8986
50°	8812	8756	8670
55°	8356	8245	8182
60°	7606	7388	7353
65°	6701	6421	6401
70°	5785	5546	5546
75°	4981	4910	4841
80°	4392	4442	4339
85°	3437	3747	3747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	2.2
10°-20°	454.6	6.2
20°-30°	681.0	9.3
30°-40°	798.8	10.9
40°-50°	801.2	11.0
50°-60°	683.5	9.4
60°-70°	445.8	6.1
70°-80°	223.6	3.1
80°-90°	63.7	0.9
90°-100°	219.7	3.0
100°-110°	596.8	8.2
110°-120°	613.6	8.4
120°-130°	490.6	6.7
130°-140°	385.5	5.3
140°-150°	295.6	4.0
150°-160°	212.5	2.9
160°-170°	130.0	1.8
170°-180°	43.8	0.6
0°-30°	1294.8	17.7
0°-40°	2093.6	28.7
0°-60°	3578.4	49.0
0°-90°	4311.4	59.1
90°-120°	1430.0	19.6
90°-150°	2601.6	35.6
90°-180°	2988.0	40.9
0°-180°	7299.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1690	1674	1679	1674	1674	160
15°	1625	1609	1616	1610	1607	458
25°	1496	1479	1486	1473	1471	688
35°	1293	1280	1284	1269	1268	808
45°	1051	1044	1043	1033	1033	809
55°	779	776	769	764	763	692
65°	460	452	441	438	440	459
75°	210	210	207	205	204	227
85°	49	53	53	53	53	57
90°	2	6	10	13	13	4
95°	32	120	383	166	112	34
105°	106	165	656	999	940	113
115°	188	229	525	1045	1190	186
125°	259	295	475	801	945	231
135°	312	346	462	652	736	241
145°	360	386	456	554	596	226
155°	408	422	453	498	512	188
165°	441	447	455	474	475	125
175°	458	459	456	462	461	43
180°	458	458	458	458	458	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1683.8	1683.8	1683.8	1683.8	1683.8
2.5°	1694.4	1680.6	1683.8	1681.3	1674.4
5°	1689.7	1673.9	1679.4	1673.5	1673.5
7.5°	1678.2	1660.9	1666.4	1660.5	1660.2
10°	1667.6	1650.3	1655.8	1649.8	1648.4
12.5°	1652.2	1634.9	1641.6	1634.5	1634.2
15°	1624.8	1608.9	1615.9	1610.0	1607.1
17.5°	1593.8	1576.5	1584.9	1576.7	1575.5
20°	1570.2	1552.9	1561.3	1549.5	1549.5
22.5°	1541.9	1524.5	1534.2	1518.8	1518.8
25°	1496.4	1479.1	1486.1	1472.8	1471.3
27.5°	1442.4	1425.4	1432.7	1417.6	1417.3
30°	1403.4	1387.6	1396.1	1379.8	1378.3
32.5°	1360.9	1346.2	1352.4	1336.1	1334.7
35°	1292.8	1279.8	1283.9	1269.1	1267.7
37.5°	1221.0	1207.8	1212.5	1199.8	1199.2
40°	1170.3	1161.6	1162.9	1152.5	1149.6
42.5°	1123.0	1113.2	1114.5	1104.1	1103.6
45°	1050.7	1043.5	1043.4	1033.0	1033.0
47.5°	974.0	968.5	966.9	958.3	958.1
50°	920.9	916.5	915.0	907.5	906.1
52.5°	865.4	863.4	858.3	852.1	851.8
55°	779.2	776.3	768.9	764.4	763.0
57.5°	685.6	679.9	671.5	665.0	666.2
60°	618.3	612.6	600.6	597.7	597.7
62.5°	553.4	546.5	534.5	530.4	532.7
65°	460.4	451.8	441.2	438.3	439.8
67.5°	376.0	368.2	356.8	356.8	355.7
70°	321.7	317.4	308.4	308.4	308.4
72.5°	273.3	271.3	264.7	264.7	263.6
75°	209.6	209.6	206.6	205.1	203.7
77.5°	157.0	157.6	156.1	154.6	152.0
80°	124.0	126.8	125.4	123.9	122.5
82.5°	93.3	96.2	95.9	93.3	93.0
85°	48.7	53.0	53.1	53.1	53.1
87.5°	13.3	18.8	20.9	21.6	22.7
90°	1.5	5.8	10.3	13.2	13.2
92.5°	13.2	60.1	104.5	44.9	38.0
95°	32.4	120.1	382.6	166.5	111.8
97.5°	53.6	132.7	586.5	456.3	320.5
100°	67.7	141.1	648.9	657.8	531.2
102.5°	81.8	149.4	665.4	813.5	701.9
105°	105.9	164.9	656.3	999.2	940.2
107.5°	131.0	183.0	618.3	1095.1	1111.5
110°	148.6	196.1	590.0	1114.0	1184.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.9	209.1	561.8	1098.3	1204.5
115°	188.3	228.6	525.3	1045.1	1190.4
117.5°	211.3	249.9	502.0	969.6	1133.3
120°	226.6	264.0	491.5	918.9	1081.5
122.5°	239.5	277.0	484.4	868.2	1025.0
125°	259.0	294.9	475.3	800.8	944.7
127.5°	276.3	312.0	470.3	749.7	873.1
130°	286.9	321.5	467.9	717.6	828.4
132.5°	297.5	332.1	465.6	690.3	788.4
135°	311.9	346.5	462.0	652.3	735.7
137.5°	327.5	358.9	460.3	618.7	688.9
140°	337.0	367.2	459.1	597.4	660.7
142.5°	346.4	374.3	457.9	580.6	633.6
145°	360.5	386.4	456.1	554.2	595.9
147.5°	376.4	398.5	454.7	533.4	566.2
150°	387.0	405.7	454.7	521.5	547.4
152.5°	395.2	411.6	453.5	510.8	532.1
155°	407.6	422.0	453.2	497.7	512.1
157.5°	419.6	430.9	453.2	488.8	499.7
160°	426.7	436.8	453.2	482.8	491.5
162.5°	433.8	441.5	454.4	478.1	484.4
165°	441.4	447.2	454.7	473.8	475.3
167.5°	449.4	452.2	456.1	468.8	470.0
170°	451.7	454.6	456.1	466.4	466.4
172.5°	454.1	455.8	456.1	464.1	464.1
175°	457.6	459.1	456.1	462.0	460.6
177.5°	458.8	458.8	455.3	459.9	457.6
180°	457.6	457.6	457.6	457.6	457.6

(END OF REPORT)