

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: P563495

Luminaire Tested: **SQ4-PP3-0U-075D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563495
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PP3-0U-075D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

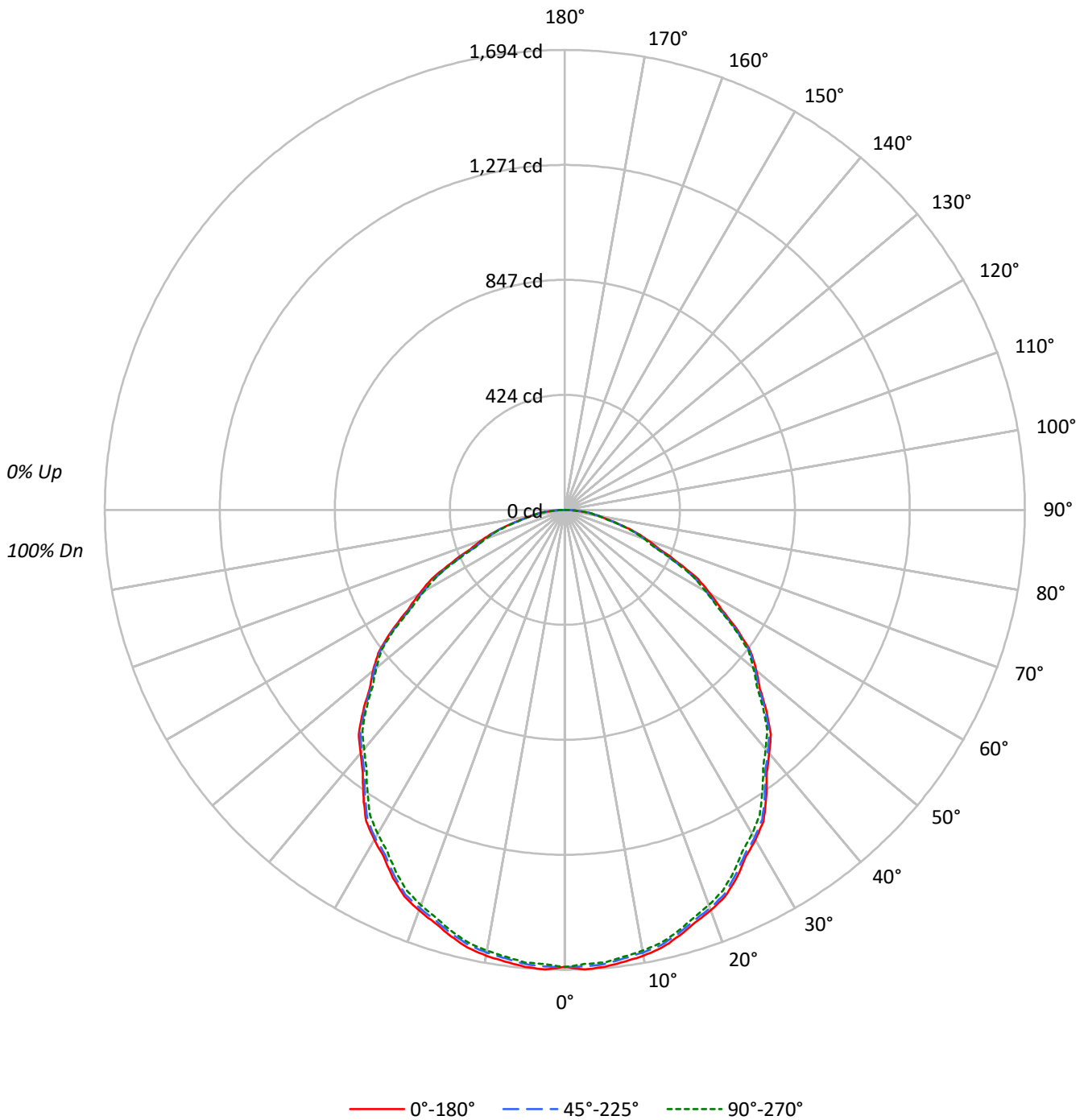
Lumens per Lamp: N/A
Luminaire Lumens: 4309.7 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

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	3.7
10°-20°	454.6	10.5
20°-30°	681.0	15.8
30°-40°	798.8	18.5
40°-50°	801.2	18.6
50°-60°	683.5	15.9
60°-70°	445.8	10.3
70°-80°	223.6	5.2
80°-90°	61.9	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1294.8	30.0
0°-40°	2093.6	48.6
0°-60°	3578.4	83.0
0°-90°	4309.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4309.7	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	59
90°	0	0	0	0	0	

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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°	13.0	17.6	18.9	18.9	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)