

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: P563491

Luminaire Tested: **SQ4-PP3-0U-075D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563491
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-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

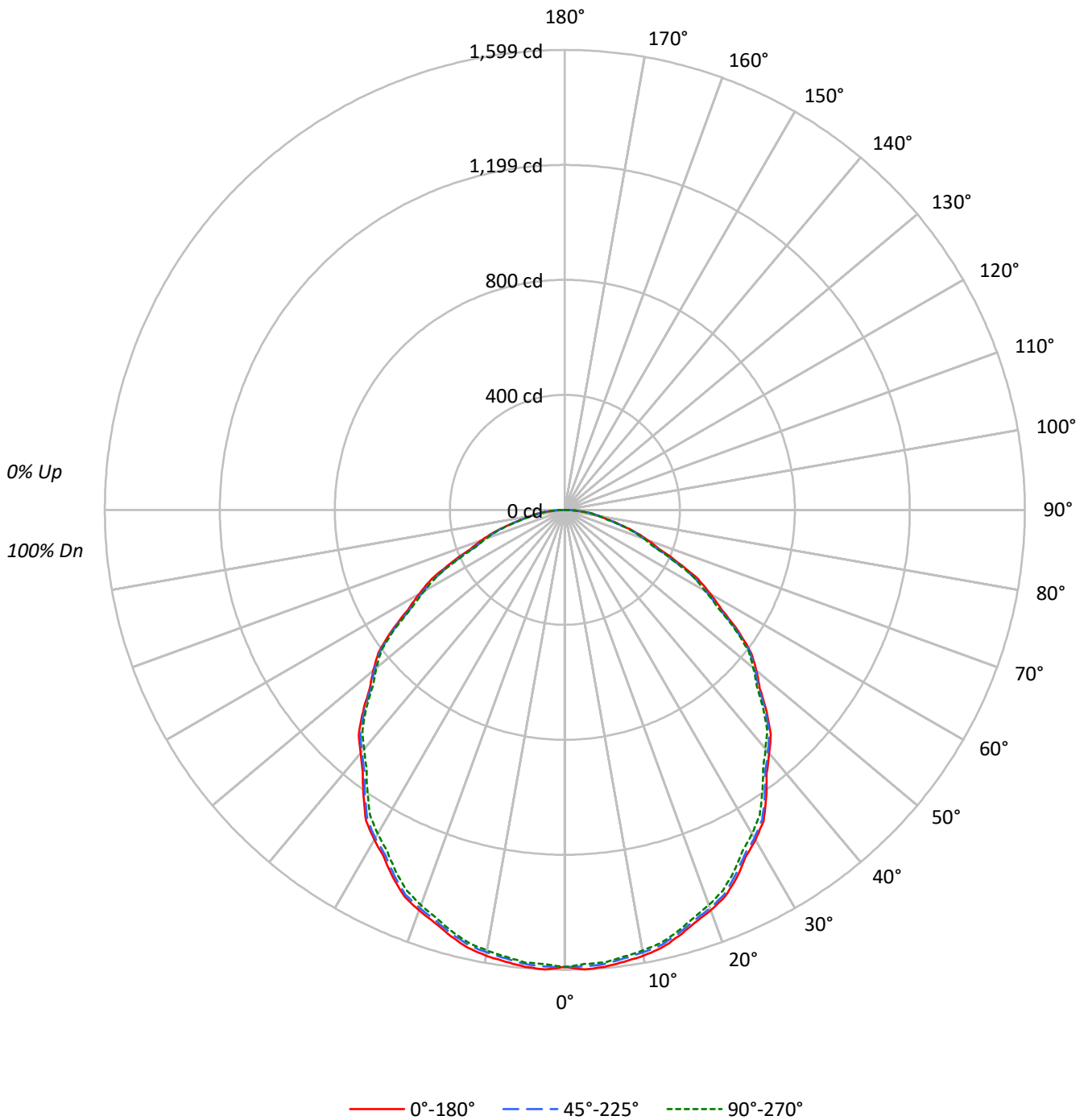
Lumens per Lamp: N/A
Luminaire Lumens: 4067.9 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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°	9775	9775	9775
5°	9847	9787	9753
10°	9831	9761	9718
15°	9766	9713	9659
20°	9701	9646	9574
25°	9585	9520	9425
30°	9408	9359	9240
35°	9162	9100	8984
40°	8869	8813	8713
45°	8627	8566	8482
50°	8317	8264	8184
55°	7887	7782	7723
60°	7179	6974	6939
65°	6325	6062	6041
70°	5462	5235	5235
75°	4701	4634	4568
80°	4144	4194	4095
85°	3246	3536	3536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	3.7
10°-20°	429.1	10.5
20°-30°	642.8	15.8
30°-40°	753.9	18.5
40°-50°	756.3	18.6
50°-60°	645.2	15.9
60°-70°	420.8	10.3
70°-80°	211.1	5.2
80°-90°	58.4	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°	1222.2	30.0
0°-40°	1976.1	48.6
0°-60°	3377.6	83.0
0°-90°	4067.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4067.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1589	1589	1589	1589	1589	
5°	1595	1580	1585	1580	1580	151
15°	1534	1519	1525	1520	1517	433
25°	1412	1396	1403	1390	1389	649
35°	1220	1208	1212	1198	1196	762
45°	992	985	985	975	975	764
55°	736	733	726	722	720	654
65°	435	426	416	414	415	434
75°	198	198	195	194	192	215
85°	46	50	50	50	50	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1589.3	1589.3	1589.3	1589.3	1589.3
2.5°	1599.4	1586.3	1589.3	1587.0	1580.4
5°	1594.9	1579.9	1585.2	1579.6	1579.6
7.5°	1584.1	1567.7	1572.9	1567.3	1567.1
10°	1574.0	1557.7	1562.9	1557.3	1555.9
12.5°	1559.5	1543.2	1549.5	1542.8	1542.5
15°	1533.6	1518.6	1525.3	1519.6	1516.9
17.5°	1504.4	1488.0	1496.0	1488.2	1487.1
20°	1482.1	1465.7	1473.7	1462.6	1462.6
22.5°	1455.3	1439.0	1448.1	1433.6	1433.6
25°	1412.4	1396.1	1402.7	1390.1	1388.8
27.5°	1361.5	1345.4	1352.3	1338.1	1337.8
30°	1324.7	1309.7	1317.7	1302.4	1301.0
32.5°	1284.6	1270.7	1276.5	1261.1	1259.8
35°	1220.2	1208.0	1211.9	1197.9	1196.5
37.5°	1152.5	1140.0	1144.4	1132.5	1131.9
40°	1104.6	1096.4	1097.6	1087.8	1085.1
42.5°	1060.0	1050.8	1052.0	1042.2	1041.6
45°	991.8	985.0	984.8	975.1	975.1
47.5°	919.3	914.2	912.7	904.6	904.3
50°	869.2	865.1	863.6	856.6	855.3
52.5°	816.8	814.9	810.1	804.3	804.0
55°	735.5	732.7	725.7	721.5	720.2
57.5°	647.2	641.7	633.8	627.7	628.8
60°	583.6	578.2	566.9	564.1	564.1
62.5°	522.4	515.8	504.5	500.7	502.9
65°	434.6	426.4	416.5	413.7	415.1
67.5°	354.9	347.6	336.8	336.8	335.7
70°	303.7	299.6	291.1	291.1	291.1
72.5°	258.0	256.1	249.9	249.9	248.8
75°	197.8	197.8	195.0	193.6	192.2
77.5°	148.2	148.8	147.4	145.9	143.5
80°	117.0	119.7	118.4	117.0	115.6
82.5°	88.0	90.8	90.5	88.0	87.8
85°	46.0	50.1	50.1	50.1	50.1
87.5°	12.3	16.6	17.8	17.9	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)