

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: P518629

Luminaire Tested: **SQ4-BB-0U-075D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518629
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-0U-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

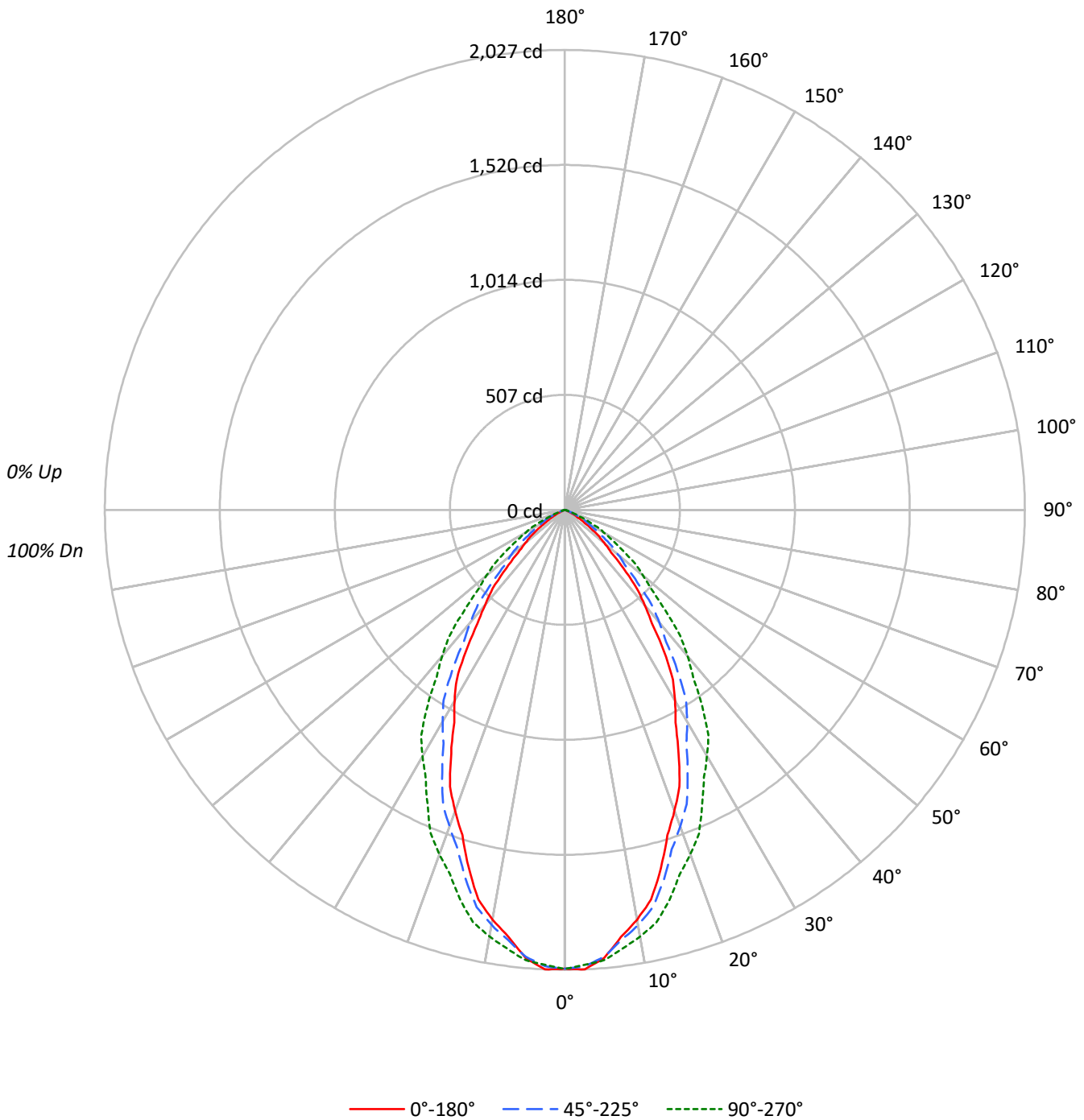
Lumens per Lamp: N/A
Luminaire Lumens: 2412.7 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12440	12440	12440
5°	12240	12210	12300
10°	11453	11605	11929
15°	10411	10742	11340
20°	9242	9722	10574
25°	8048	8686	9715
30°	6894	7651	8902
35°	5716	6495	7920
40°	4392	5193	6749
45°	3175	3933	5431
50°	2163	2931	4307
55°	1406	2120	3347
60°	807	1492	2420
65°	214	911	1224
70°	106	282	352
75°	48	24	0
80°	35	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.6	7.7
10°-20°	472.0	19.6
20°-30°	590.9	24.5
30°-40°	545.8	22.6
40°-50°	366.8	15.2
50°-60°	189.4	7.9
60°-70°	59.3	2.5
70°-80°	3.8	0.2
80°-90°	0.1	0.0
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°	1247.5	51.7
0°-40°	1793.3	74.3
0°-60°	2349.5	97.4
0°-90°	2412.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2412.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2022	2022	2022	2022	2022	
5°	1982	1962	1978	1984	1992	184
15°	1635	1629	1687	1744	1781	455
25°	1186	1196	1280	1367	1432	544
35°	761	780	865	967	1055	472
45°	365	387	452	540	624	287
55°	131	153	198	254	312	122
65°	15	28	63	76	84	25
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2022.5	2022.5	2022.5	2022.5	2022.5
2.5°	2027.2	2008.1	2013.1	2013.0	2007.7
5°	1982.4	1962.3	1977.5	1984.5	1992.2
7.5°	1898.7	1883.0	1912.2	1934.0	1949.9
10°	1833.7	1820.3	1858.1	1888.0	1910.0
12.5°	1758.5	1748.2	1794.0	1834.9	1863.0
15°	1635.0	1629.3	1686.9	1743.5	1780.8
17.5°	1502.8	1502.6	1568.3	1638.6	1683.6
20°	1412.0	1414.8	1485.3	1562.9	1615.5
22.5°	1321.1	1327.8	1403.1	1484.0	1544.2
25°	1185.9	1195.5	1279.9	1367.4	1431.5
27.5°	1056.0	1069.9	1158.7	1249.7	1327.8
30°	970.7	986.9	1077.3	1173.1	1253.4
32.5°	886.9	906.2	994.3	1095.6	1177.5
35°	761.3	780.4	865.0	966.8	1054.8
37.5°	631.5	650.3	732.9	833.1	928.2
40°	547.0	568.0	646.8	743.9	840.5
42.5°	470.3	491.3	565.4	660.8	752.1
45°	365.0	387.0	452.1	540.1	624.3
47.5°	277.7	301.6	358.7	438.3	515.1
50°	226.0	249.9	306.3	376.4	450.1
52.5°	184.5	207.7	258.5	324.6	392.2
55°	131.1	153.1	197.7	253.8	312.1
57.5°	90.6	109.6	149.5	196.3	242.1
60°	65.6	83.7	121.3	159.4	196.7
62.5°	43.6	60.3	97.1	126.2	151.3
65°	14.7	28.1	62.6	75.5	84.1
67.5°	7.4	9.0	32.9	34.7	37.6
70°	5.9	5.9	15.7	16.7	19.6
72.5°	4.3	4.3	6.3	8.0	8.6
75°	2.0	2.0	1.0	0.0	0.0
77.5°	1.0	1.0	0.8	0.0	0.0
80°	1.0	1.0	0.0	0.0	0.0
82.5°	0.2	0.2	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)