

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: P518533

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

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518533  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-075D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

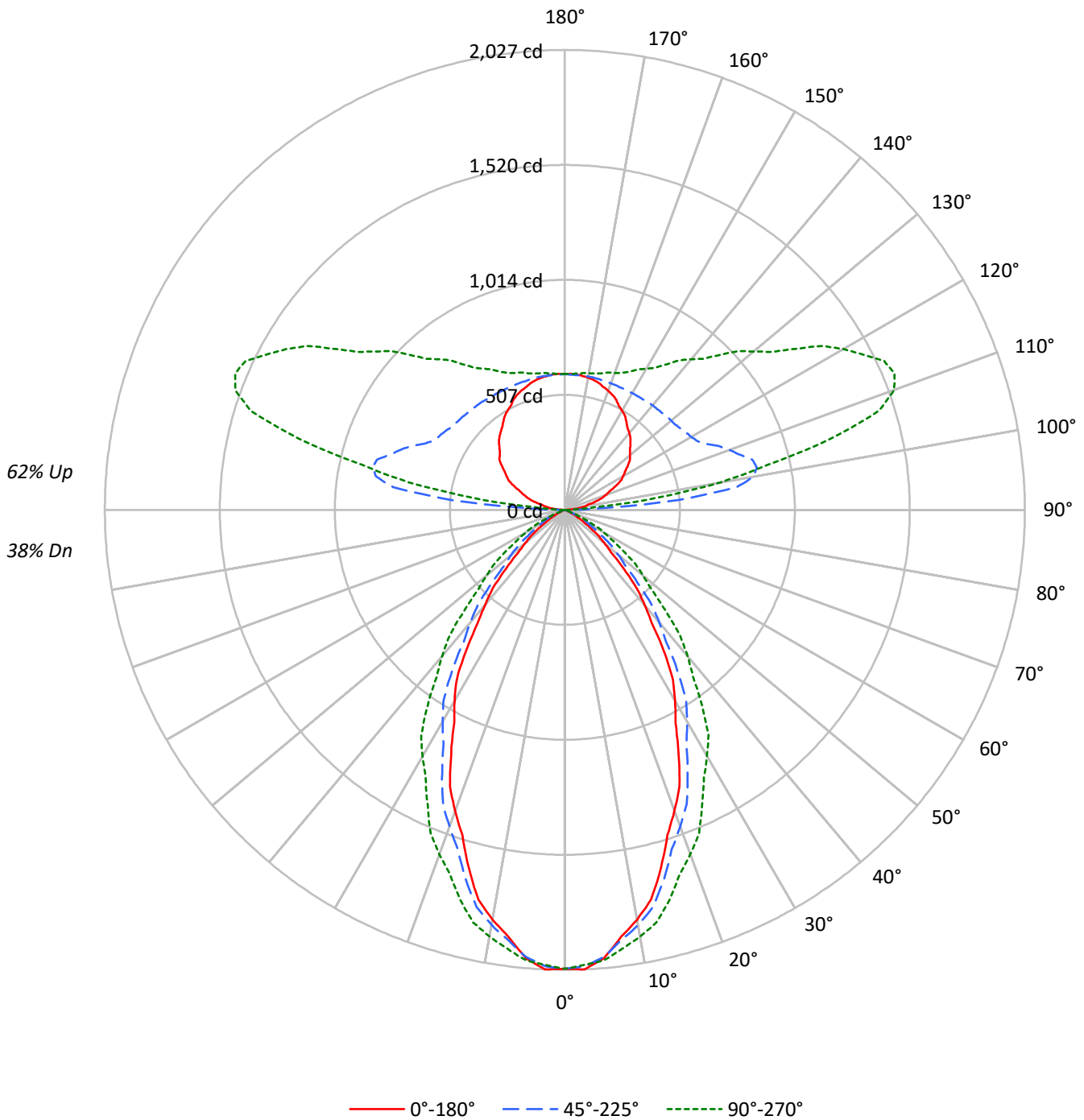
Lumens per Lamp: N/A  
Luminaire Lumens: 6316.2 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 68  
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	50	30	10	0	
RCR																						
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				
1	96	93	89	86	88	85	82	79	69	67	66	55	54	53	42	41	41	35				
2	89	83	77	73	81	76	71	67	62	59	57	50	48	46	39	38	37	32				
3	82	74	68	62	75	68	62	58	56	52	49	46	43	41	36	34	33	28				
4	76	66	59	54	69	61	55	50	51	47	43	42	39	36	33	31	30	26				
5	70	60	53	47	64	55	49	44	46	42	38	38	35	32	30	28	27	23				
6	65	54	47	42	59	50	44	39	42	38	34	35	32	29	28	26	24	21				
7	60	49	42	37	55	46	39	35	39	34	31	32	29	26	26	24	22	20				
8	56	45	38	33	52	42	36	31	36	31	28	30	26	24	24	22	20	18				
9	53	42	35	30	48	39	33	28	33	28	25	28	24	22	23	20	19	17				
10	49	38	32	27	45	36	30	26	31	26	23	26	23	20	21	19	17	15				

**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	2.9
10°-20°	472.0	7.5
20°-30°	590.9	9.4
30°-40°	545.8	8.6
40°-50°	366.8	5.8
50°-60°	189.4	3.0
60°-70°	59.3	0.9
70°-80°	3.8	0.1
80°-90°	1.6	0.0
90°-100°	282.5	4.5
100°-110°	777.2	12.3
110°-120°	802.2	12.7
120°-130°	642.7	10.2
130°-140°	504.8	8.0
140°-150°	386.9	6.1
150°-160°	278.2	4.4
160°-170°	170.1	2.7
170°-180°	57.3	0.9
0°-30°	1247.5	19.8
0°-40°	1793.3	28.4
0°-60°	2349.5	37.2
0°-90°	2414.2	38.2
90°-120°	1861.9	29.5
90°-150°	3396.4	53.8
90°-180°	3902.0	61.8
0°-180°	6316.2	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°	1	5	9	12	12	3
95°	42	154	500	214	136	44
105°	139	214	856	1304	1217	146
115°	246	300	687	1368	1552	243
125°	339	386	623	1054	1235	302
135°	409	454	605	852	965	316
145°	473	505	596	726	782	296
155°	535	553	593	653	672	246
165°	579	586	595	619	623	163
175°	599	600	596	604	603	57
180°	599	599	599	599	599	



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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°	0.3	1.0	1.8	2.3	2.3
90°	1.3	5.0	8.9	11.5	11.5
92.5°	17.6	75.2	130.2	50.0	41.0
95°	42.1	154.2	499.5	213.6	136.4
97.5°	68.6	171.0	762.3	587.4	414.4
100°	87.9	181.4	844.9	852.8	695.8
102.5°	106.3	193.8	866.3	1058.0	914.0
105°	138.9	213.7	856.4	1304.2	1217.0
107.5°	170.0	238.3	807.7	1424.8	1450.7
110°	192.4	254.7	771.0	1454.8	1544.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	212.8	273.1	734.3	1435.5	1572.1
115°	246.0	299.5	686.9	1367.8	1552.2
117.5°	277.6	326.9	656.8	1272.7	1481.3
120°	296.9	344.3	643.6	1201.5	1417.1
122.5°	314.3	361.6	634.4	1139.1	1343.7
125°	339.0	386.3	623.2	1054.2	1234.9
127.5°	362.4	407.5	615.8	983.3	1141.8
130°	374.7	420.8	611.7	941.2	1085.8
132.5°	388.9	435.0	608.6	904.2	1034.8
135°	409.1	453.9	605.3	852.5	964.7
137.5°	427.9	469.5	602.5	810.8	903.3
140°	442.2	480.8	601.5	783.1	866.6
142.5°	454.4	490.1	599.5	758.3	829.9
145°	472.8	505.2	596.4	726.4	782.5
147.5°	492.4	520.3	594.9	698.1	743.0
150°	504.6	529.6	593.9	682.6	717.5
152.5°	515.9	538.8	592.8	669.2	698.1
155°	535.2	552.7	592.6	652.9	671.6
157.5°	549.2	563.5	592.6	639.5	652.5
160°	559.4	570.7	592.6	632.3	642.3
162.5°	567.6	576.8	593.6	626.1	634.1
165°	578.6	586.0	595.1	619.4	623.2
167.5°	586.2	591.9	596.4	613.8	614.8
170°	591.3	595.0	596.4	611.7	611.7
172.5°	595.4	597.1	596.4	608.6	607.6
175°	598.9	600.2	596.4	604.0	602.8
177.5°	600.0	600.0	595.9	602.0	600.0
180°	598.9	598.9	598.9	598.9	598.9

(END OF REPORT)