

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: P518341

Luminaire Tested: **SQ4-BB-025U-075D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518341  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-075D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

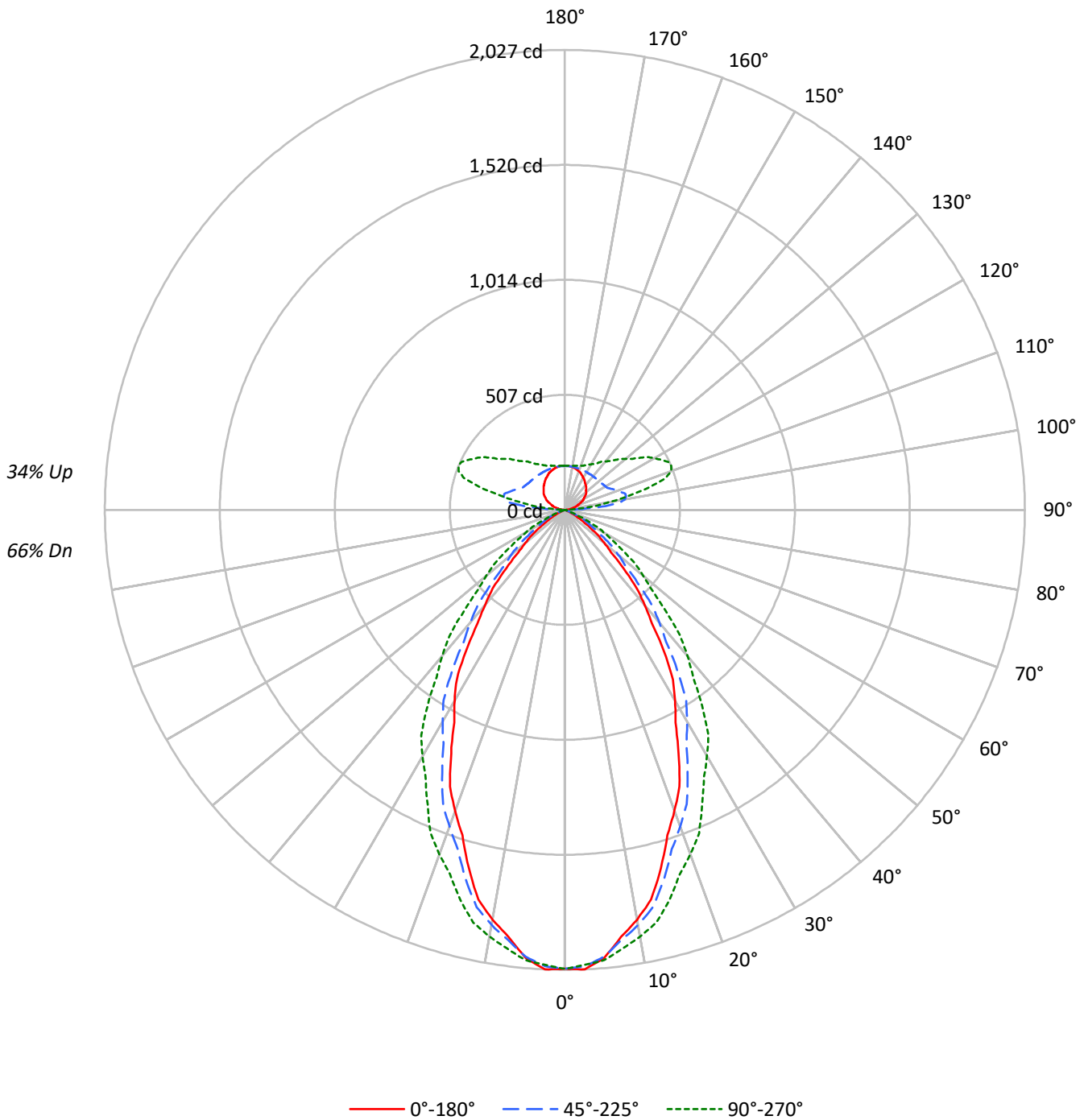
Lumens per Lamp: N/A  
Luminaire Lumens: 3672.7 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 48.6  
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66				
1	104	100	97	94	98	95	92	89	84	82	80	75	73	72	66	65	64	60				
2	96	90	85	81	91	86	81	77	77	73	71	69	66	64	61	59	58	54				
3	90	82	75	71	84	78	72	68	70	66	62	63	60	57	56	54	52	49				
4	83	74	67	62	79	71	65	60	64	59	56	58	54	51	52	49	47	44				
5	78	67	60	55	73	64	58	53	59	54	50	53	49	46	48	45	43	40				
6	72	62	55	49	68	59	53	48	54	49	45	49	45	42	45	42	39	37				
7	68	57	50	45	64	54	48	43	50	45	41	46	41	38	42	38	36	34				
8	63	52	45	41	60	50	44	39	46	41	37	43	38	35	39	36	33	31				
9	60	48	42	37	57	47	40	36	43	38	34	40	35	32	37	33	31	29				
10	56	45	38	34	53	43	37	33	40	35	32	37	33	30	34	31	28	27				

**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	5.0
10°-20°	472.0	12.9
20°-30°	590.9	16.1
30°-40°	545.8	14.9
40°-50°	366.8	10.0
50°-60°	189.4	5.2
60°-70°	59.3	1.6
70°-80°	3.8	0.1
80°-90°	1.1	0.0
90°-100°	94.7	2.6
100°-110°	248.9	6.8
110°-120°	258.1	7.0
120°-130°	207.0	5.6
130°-140°	162.4	4.4
140°-150°	124.6	3.4
150°-160°	89.8	2.4
160°-170°	54.9	1.5
170°-180°	18.6	0.5
0°-30°	1247.5	34.0
0°-40°	1793.3	48.8
0°-60°	2349.5	64.0
0°-90°	2413.8	65.7
90°-120°	601.6	16.4
90°-150°	1095.7	29.8
90°-180°	1259.0	34.3
0°-180°	3672.7	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°	1	4	10	5	5	1
95°	12	49	163	84	57	14
105°	45	68	275	418	390	48
115°	80	97	220	440	502	79
125°	111	124	200	339	400	98
135°	132	145	194	274	310	102
145°	153	163	192	233	252	96
155°	173	178	192	211	217	80
165°	187	189	192	199	202	53
175°	194	194	193	196	196	18
180°	194	194	194	194	194	



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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°	0.2	0.7	2.0	1.0	1.0
90°	1.2	3.7	10.0	5.0	5.0
92.5°	5.2	25.2	55.8	24.7	15.9
95°	12.5	49.0	163.1	84.1	57.3
97.5°	21.7	53.8	244.0	194.1	142.9
100°	28.6	57.9	268.9	272.5	211.7
102.5°	34.6	61.9	275.9	339.5	287.4
105°	44.8	68.0	275.2	417.7	389.7
107.5°	55.3	76.7	259.5	458.3	465.2
110°	62.3	81.7	246.5	468.8	498.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	87.7	234.6	462.2	507.0
115°	79.7	96.7	220.4	439.7	501.8
117.5°	89.9	105.5	210.7	408.5	477.4
120°	95.9	110.5	206.7	387.5	454.4
122.5°	101.8	116.5	203.7	366.6	432.5
125°	110.8	124.2	200.5	338.8	399.7
127.5°	118.0	131.7	197.7	316.4	367.8
130°	122.0	136.6	196.7	302.4	349.9
132.5°	126.0	140.6	195.7	290.3	332.9
135°	132.0	145.4	194.2	273.5	310.0
137.5°	138.2	151.3	194.0	260.9	290.8
140°	143.2	155.4	193.0	250.9	278.9
142.5°	147.2	158.4	193.0	243.8	267.9
145°	153.1	162.9	191.7	233.2	251.5
147.5°	159.1	168.6	191.7	224.5	239.6
150°	163.1	171.6	191.7	219.4	231.6
152.5°	167.1	173.7	191.7	215.4	224.6
155°	173.1	177.9	191.7	210.6	216.6
157.5°	177.5	182.2	191.7	206.3	210.7
160°	180.5	184.2	191.7	204.2	206.7
162.5°	183.5	186.2	191.7	202.3	204.7
165°	186.8	189.2	191.7	199.3	201.7
167.5°	189.7	191.0	193.0	198.0	199.0
170°	191.7	193.0	193.0	198.0	198.0
172.5°	192.7	193.0	193.0	196.9	196.0
175°	194.2	194.2	193.0	195.5	195.5
177.5°	194.2	194.2	193.2	195.2	194.2
180°	194.2	194.2	194.2	194.2	194.2

(END OF REPORT)