

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: P518520

Luminaire Tested: **SQ4-BB-075U-075D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518520  
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-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

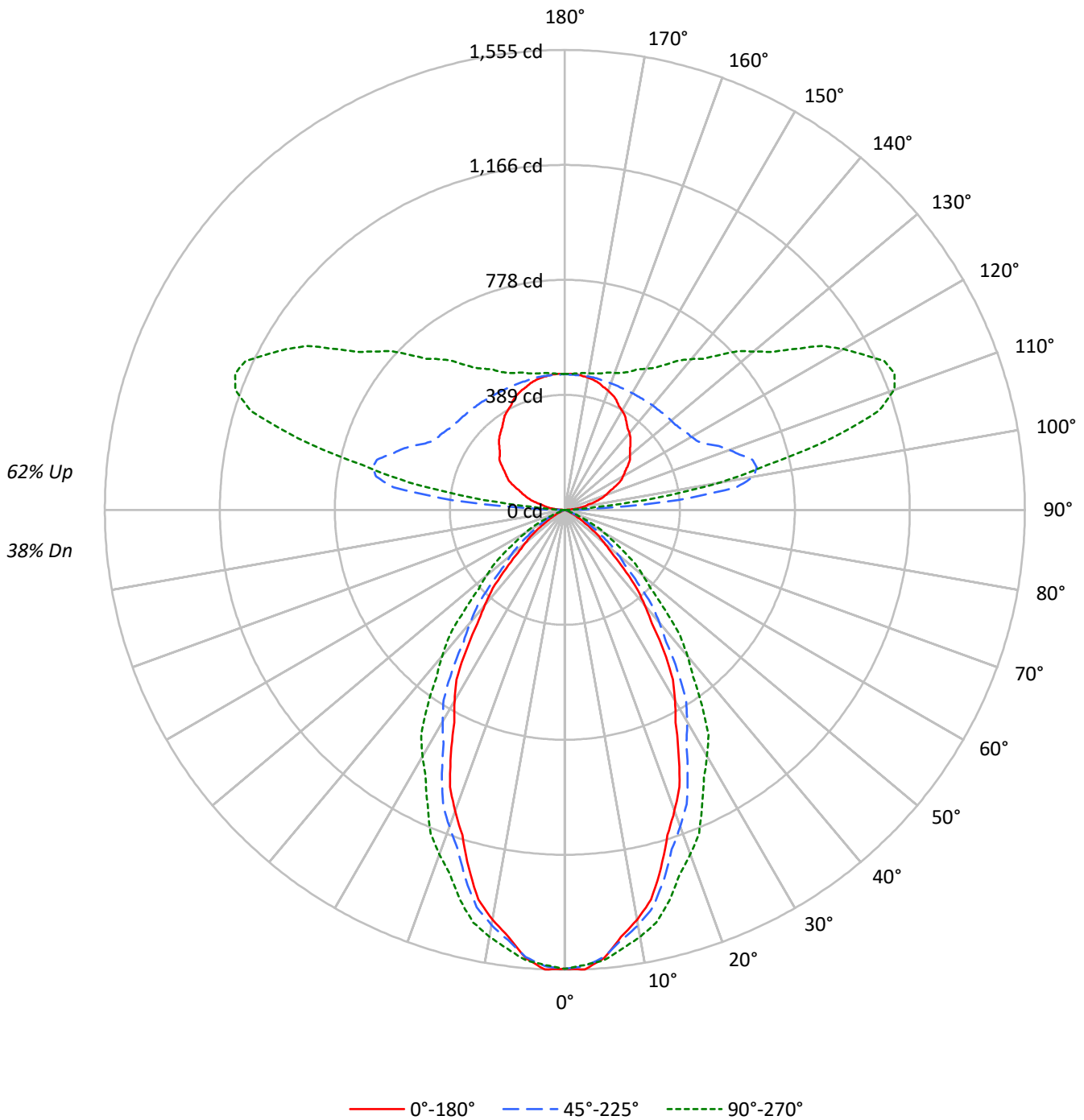
Lumens per Lamp: N/A  
Luminaire Lumens: 4846.1 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 42.5  
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°	14317	14317	14317
5°	14087	14052	14156
10°	13181	13357	13730
15°	11983	12363	13051
20°	10636	11189	12170
25°	9263	9997	11181
30°	7934	8806	10245
35°	6579	7475	9115
40°	5055	5976	7767
45°	3653	4525	6250
50°	2489	3373	4956
55°	1618	2440	3852
60°	928	1718	2784
65°	247	1048	1410
70°	121	324	405
75°	53	29	0
80°	43	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.6	2.9
10°-20°	362.2	7.5
20°-30°	453.4	9.4
30°-40°	418.8	8.6
40°-50°	281.4	5.8
50°-60°	145.3	3.0
60°-70°	45.5	0.9
70°-80°	2.9	0.1
80°-90°	1.2	0.0
90°-100°	216.8	4.5
100°-110°	596.3	12.3
110°-120°	615.5	12.7
120°-130°	493.1	10.2
130°-140°	387.3	8.0
140°-150°	296.8	6.1
150°-160°	213.4	4.4
160°-170°	130.5	2.7
170°-180°	44.0	0.9
0°-30°	957.2	19.8
0°-40°	1376.0	28.4
0°-60°	1802.7	37.2
0°-90°	1852.4	38.2
90°-120°	1428.6	29.5
90°-150°	2605.9	53.8
90°-180°	2994.0	61.8
0°-180°	4846.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1521	1506	1517	1523	1528	141
15°	1254	1250	1294	1338	1366	349
25°	910	917	982	1049	1098	417
35°	584	599	664	742	809	362
45°	280	297	347	414	479	220
55°	101	118	152	195	240	94
65°	11	22	48	58	65	19
75°	2	2	1	0	0	2
85°	0	0	0	0	0	0
90°	1	4	7	9	9	2
95°	32	118	383	164	105	34
105°	107	164	657	1001	934	112
115°	189	230	527	1049	1191	186
125°	260	296	478	809	948	232
135°	314	348	464	654	740	242
145°	363	388	458	557	600	227
155°	411	424	455	501	515	189
165°	444	450	457	475	478	125
175°	460	460	458	463	462	44
180°	460	460	460	460	460	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1551.8	1551.8	1551.8	1551.8	1551.8
2.5°	1555.4	1540.7	1544.6	1544.5	1540.4
5°	1521.0	1505.6	1517.3	1522.7	1528.5
7.5°	1456.8	1444.7	1467.1	1483.9	1496.1
10°	1406.9	1396.6	1425.7	1448.6	1465.5
12.5°	1349.3	1341.3	1376.4	1407.8	1429.4
15°	1254.5	1250.1	1294.3	1337.7	1366.4
17.5°	1153.0	1152.9	1203.3	1257.2	1291.7
20°	1083.3	1085.5	1139.6	1199.1	1239.5
22.5°	1013.7	1018.8	1076.6	1138.6	1184.8
25°	909.9	917.3	982.0	1049.2	1098.3
27.5°	810.2	820.9	889.0	958.9	1018.8
30°	744.7	757.2	826.6	900.1	961.7
32.5°	680.5	695.3	762.9	840.6	903.5
35°	584.1	598.8	663.7	741.8	809.3
37.5°	484.5	498.9	562.3	639.2	712.2
40°	419.7	435.8	496.2	570.8	644.9
42.5°	360.8	377.0	433.8	507.0	577.0
45°	280.0	296.9	346.8	414.4	479.0
47.5°	213.1	231.4	275.2	336.3	395.2
50°	173.4	191.8	235.0	288.8	345.3
52.5°	141.6	159.4	198.3	249.1	300.9
55°	100.6	117.5	151.7	194.7	239.5
57.5°	69.5	84.1	114.7	150.6	185.7
60°	50.3	64.2	93.1	122.3	150.9
62.5°	33.5	46.3	74.5	96.8	116.1
65°	11.3	21.5	48.0	58.0	64.6
67.5°	5.7	6.9	25.2	26.6	28.8
70°	4.5	4.5	12.0	12.8	15.0
72.5°	3.3	3.3	4.8	6.2	6.6
75°	1.5	1.5	0.8	0.0	0.0
77.5°	0.8	0.8	0.6	0.0	0.0
80°	0.8	0.8	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	0.8	1.4	1.8	1.8
90°	1.0	3.8	6.8	8.8	8.8
92.5°	13.5	57.7	99.9	38.4	31.5
95°	32.3	118.3	383.3	163.9	104.6
97.5°	52.6	131.2	584.9	450.7	318.0
100°	67.5	139.2	648.3	654.3	533.9
102.5°	81.5	148.7	664.7	811.8	701.3
105°	106.6	163.9	657.1	1000.7	933.8
107.5°	130.4	182.8	619.7	1093.2	1113.1
110°	147.6	195.4	591.5	1116.2	1185.1

TEST NUMBER: P518520

CATALOG NUMBER: SQ4-BB-075U-075D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	163.3	209.6	563.4	1101.4	1206.2
115°	188.7	229.8	527.0	1049.4	1190.9
117.5°	213.0	250.8	503.9	976.5	1136.6
120°	227.8	264.1	493.8	921.9	1087.3
122.5°	241.1	277.4	486.7	874.0	1031.0
125°	260.1	296.4	478.1	808.8	947.5
127.5°	278.1	312.7	472.5	754.5	876.1
130°	287.5	322.8	469.3	722.2	833.1
132.5°	298.4	333.8	467.0	693.8	793.9
135°	313.9	348.3	464.4	654.1	740.2
137.5°	328.3	360.3	462.3	622.1	693.0
140°	339.3	368.9	461.5	600.8	664.9
142.5°	348.7	376.0	459.9	581.8	636.7
145°	362.8	387.6	457.6	557.3	600.3
147.5°	377.8	399.2	456.4	535.6	570.0
150°	387.2	406.3	455.6	523.7	550.5
152.5°	395.8	413.4	454.9	513.4	535.6
155°	410.7	424.0	454.7	500.9	515.3
157.5°	421.4	432.3	454.7	490.7	500.6
160°	429.2	437.8	454.7	485.1	492.8
162.5°	435.5	442.6	455.4	480.4	486.5
165°	443.9	449.6	456.6	475.3	478.1
167.5°	449.8	454.2	457.6	470.9	471.7
170°	453.7	456.6	457.6	469.3	469.3
172.5°	456.8	458.2	457.6	467.0	466.2
175°	459.5	460.5	457.6	463.4	462.5
177.5°	460.3	460.3	457.2	461.9	460.3
180°	459.5	459.5	459.5	459.5	459.5

(END OF REPORT)