

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: P518628

Luminaire Tested: **SQ4-BB-0U-075D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518628  
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-4  
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**

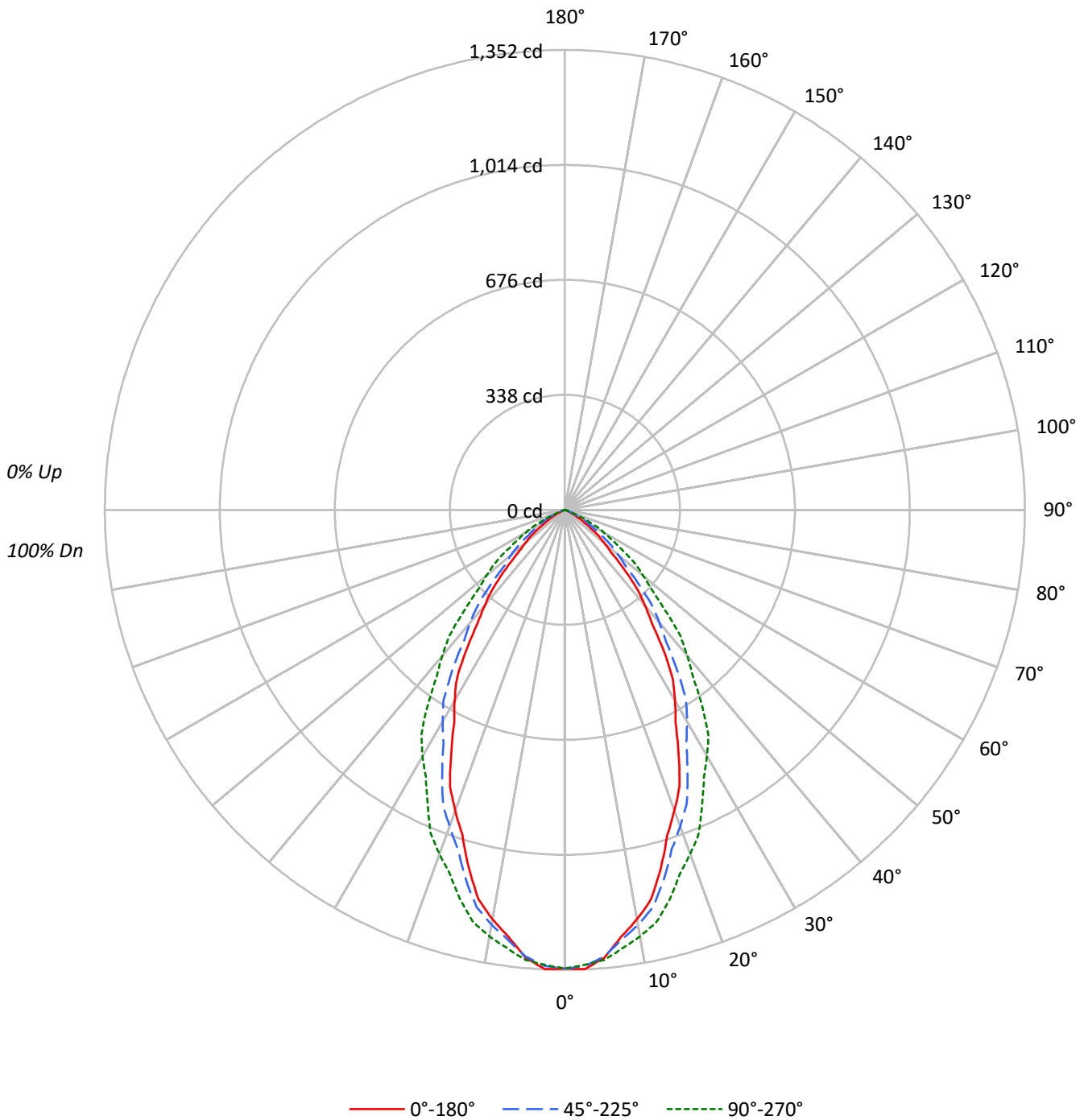
Lumens per Lamp: N/A  
Luminaire Lumens: 1608.5 lumens  
Efficiency: N/A  
Efficacy: 67.0 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 24  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82				82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74				74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67				67
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61				61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56				56
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51				51
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47				47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44				44
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41				41

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12441	12441	12441
5°	12240	12209	12300
10°	11453	11606	11929
15°	10411	10742	11340
20°	9242	9722	10574
25°	8048	8686	9715
30°	6894	7651	8902
35°	5716	6495	7920
40°	4391	5193	6748
45°	3175	3933	5431
50°	2163	2931	4307
55°	1406	2120	3347
60°	806	1493	2419
65°	214	910	1225
70°	105	281	351
75°	46	25	0
80°	37	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.1	7.7
10°-20°	314.7	19.6
20°-30°	393.9	24.5
30°-40°	363.9	22.6
40°-50°	244.5	15.2
50°-60°	126.3	7.9
60°-70°	39.5	2.5
70°-80°	2.5	0.2
80°-90°	0.0	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°	831.7	51.7
0°-40°	1195.6	74.3
0°-60°	1566.4	97.4
0°-90°	1608.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1608.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1322	1308	1318	1323	1328	123
15°	1090	1086	1125	1162	1187	304
25°	791	797	853	912	954	362
35°	508	520	577	644	703	314
45°	243	258	301	360	416	191
55°	87	102	132	169	208	82
65°	10	19	42	50	56	17
75°	1	1	1	0	0	2
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°	1348.4	1348.4	1348.4	1348.4	1348.4
2.5°	1351.5	1338.7	1342.1	1342.0	1338.4
5°	1321.6	1308.2	1318.3	1323.0	1328.1
7.5°	1265.8	1255.3	1274.8	1289.4	1299.9
10°	1222.5	1213.5	1238.8	1258.7	1273.3
12.5°	1172.4	1165.5	1196.0	1223.3	1242.0
15°	1090.0	1086.2	1124.6	1162.4	1187.2
17.5°	1001.8	1001.7	1045.5	1092.4	1122.4
20°	941.3	943.2	990.2	1041.9	1077.0
22.5°	880.8	885.2	935.4	989.3	1029.5
25°	790.6	797.0	853.2	911.6	954.3
27.5°	704.0	713.3	772.5	833.2	885.2
30°	647.1	657.9	718.2	782.0	835.6
32.5°	591.3	604.1	662.9	730.4	785.0
35°	507.5	520.3	576.7	644.5	703.2
37.5°	421.0	433.5	488.6	555.4	618.8
40°	364.6	378.7	431.2	495.9	560.3
42.5°	313.5	327.5	376.9	440.5	501.4
45°	243.3	258.0	301.4	360.1	416.2
47.5°	185.1	201.1	239.1	292.2	343.4
50°	150.7	166.6	204.2	251.0	300.1
52.5°	123.0	138.5	172.3	216.4	261.5
55°	87.4	102.1	131.8	169.2	208.1
57.5°	60.4	73.0	99.7	130.9	161.4
60°	43.7	55.8	80.9	106.2	131.1
62.5°	29.1	40.2	64.7	84.1	100.8
65°	9.8	18.7	41.7	50.4	56.1
67.5°	5.0	6.0	21.9	23.1	25.0
70°	3.9	3.9	10.4	11.1	13.0
72.5°	2.9	2.9	4.2	5.4	5.7
75°	1.3	1.3	0.7	0.0	0.0
77.5°	0.7	0.7	0.5	0.0	0.0
80°	0.7	0.7	0.0	0.0	0.0
82.5°	0.1	0.1	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)