

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: P518626

Luminaire Tested: **SQ4-BB-0U-075D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518626  
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-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

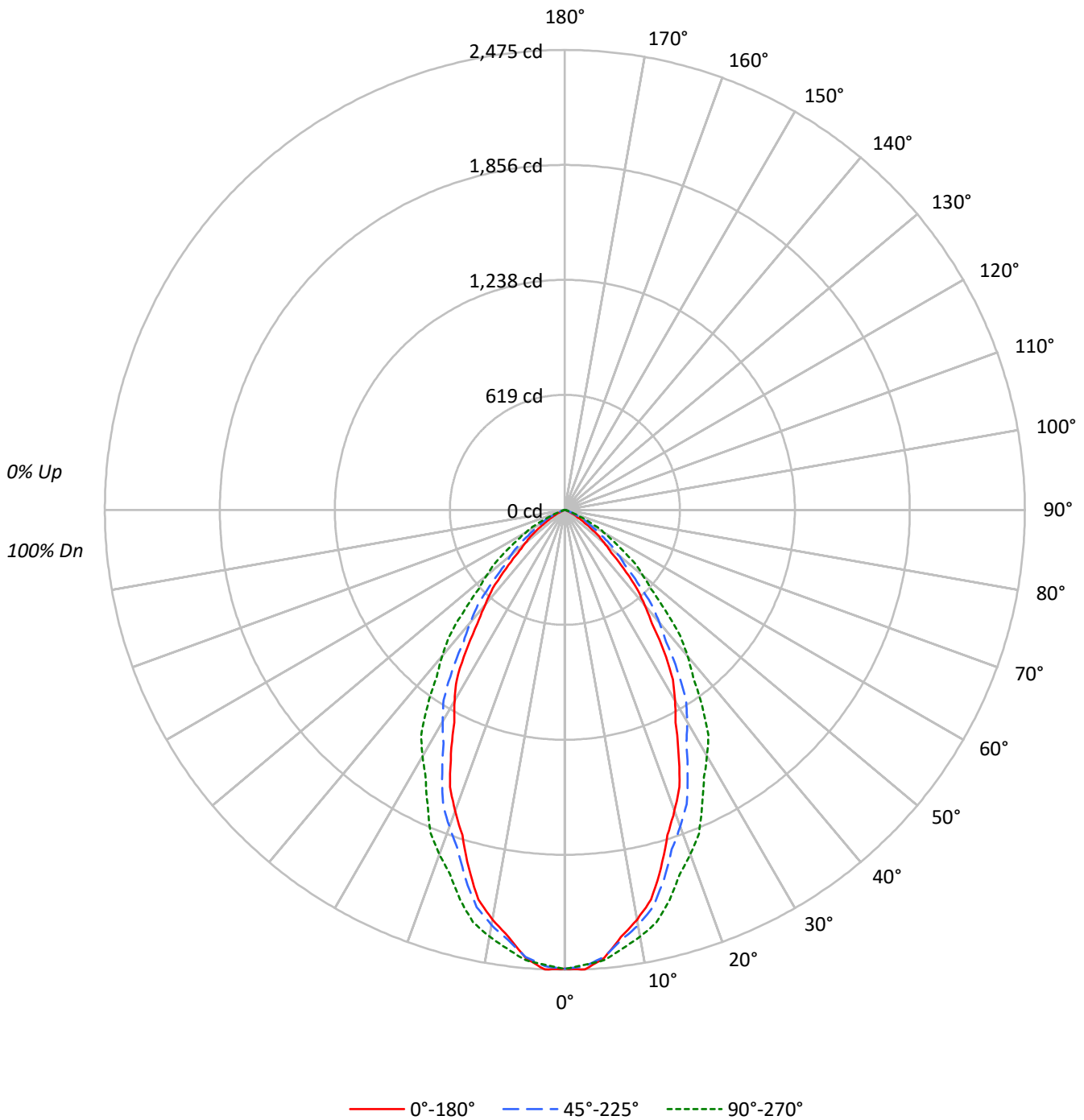
Lumens per Lamp: N/A  
Luminaire Lumens: 2946.2 lumens  
Efficiency: N/A  
Efficacy: 54.2 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 54.4  
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	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°	11393	11393	11393
5°	11210	11182	11265
10°	10489	10629	10925
15°	9535	9838	10386
20°	8464	8904	9684
25°	7371	7955	8897
30°	6314	7007	8153
35°	5235	5948	7253
40°	4022	4756	6181
45°	2908	3601	4973
50°	1981	2684	3944
55°	1288	1942	3066
60°	739	1367	2216
65°	195	835	1122
70°	97	258	322
75°	43	21	0
80°	32	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.4	7.7
10°-20°	576.4	19.6
20°-30°	721.6	24.5
30°-40°	666.5	22.6
40°-50°	447.9	15.2
50°-60°	231.3	7.9
60°-70°	72.5	2.5
70°-80°	4.6	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°	1523.4	51.7
0°-40°	2189.9	74.3
0°-60°	2869.0	97.4
0°-90°	2946.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2946.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2470	2470	2470	2470	2470	
5°	2421	2396	2415	2423	2433	224
15°	1997	1990	2060	2129	2175	556
25°	1448	1460	1563	1670	1748	664
35°	930	953	1056	1180	1288	576
45°	446	472	552	660	762	350
55°	160	187	241	310	381	149
65°	18	34	76	92	103	30
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°	2469.7	2469.7	2469.7	2469.7	2469.7
2.5°	2475.4	2452.1	2458.2	2458.1	2451.6
5°	2420.7	2396.2	2414.7	2423.3	2432.7
7.5°	2318.4	2299.3	2334.9	2361.7	2381.1
10°	2239.1	2222.8	2269.0	2305.4	2332.3
12.5°	2147.3	2134.7	2190.6	2240.6	2275.0
15°	1996.6	1989.5	2059.9	2129.0	2174.6
17.5°	1835.0	1834.8	1915.1	2000.9	2055.8
20°	1724.1	1727.6	1813.8	1908.4	1972.7
22.5°	1613.3	1621.4	1713.4	1812.1	1885.7
25°	1448.1	1459.8	1562.8	1669.8	1748.0
27.5°	1289.5	1306.5	1414.9	1526.1	1621.4
30°	1185.3	1205.1	1315.5	1432.4	1530.6
32.5°	1083.0	1106.6	1214.2	1337.9	1437.9
35°	929.6	952.9	1056.2	1180.5	1288.0
37.5°	771.1	794.0	894.9	1017.3	1133.4
40°	667.9	693.6	789.8	908.4	1026.4
42.5°	574.2	599.9	690.4	806.9	918.3
45°	445.7	472.5	552.0	659.5	762.3
47.5°	339.1	368.3	438.0	535.3	629.0
50°	276.0	305.2	374.0	459.7	549.6
52.5°	225.3	253.6	315.7	396.4	478.9
55°	160.1	187.0	241.4	309.9	381.2
57.5°	110.6	133.8	182.6	239.8	295.6
60°	80.1	102.3	148.2	194.6	240.2
62.5°	53.3	73.6	118.5	154.1	184.7
65°	17.9	34.3	76.5	92.2	102.8
67.5°	9.1	10.9	40.1	42.4	45.9
70°	7.2	7.2	19.1	20.4	23.9
72.5°	5.3	5.3	7.6	9.8	10.5
75°	2.4	2.4	1.2	0.0	0.0
77.5°	1.2	1.2	1.0	0.0	0.0
80°	1.2	1.2	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)