

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: P518634

Luminaire Tested: **SQ4-BB-0U-075D-940-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518634  
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-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

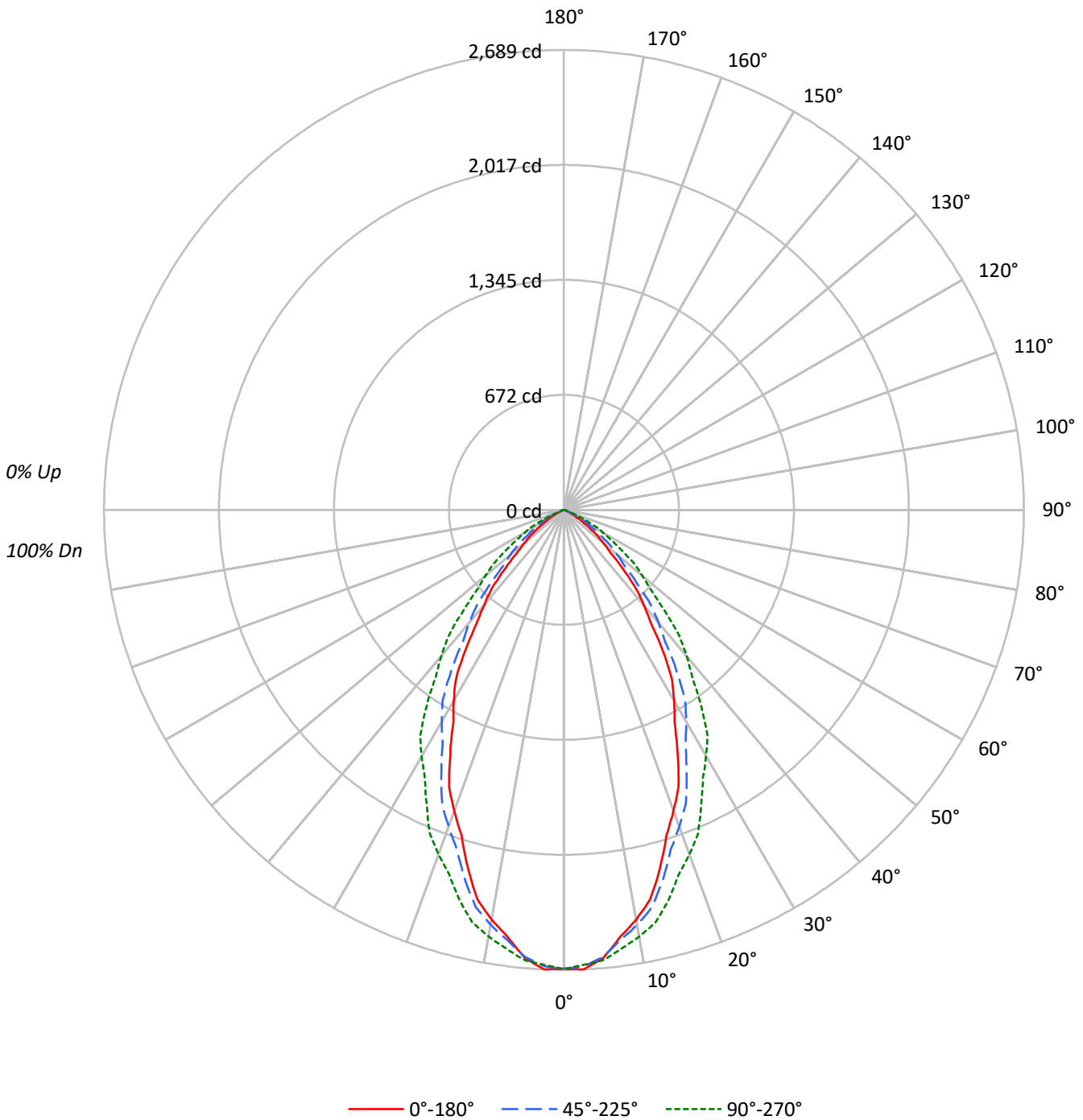
Lumens per Lamp: N/A  
Luminaire Lumens: 3200.6 lumens  
Efficiency: N/A  
Efficacy: 58.8 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41

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

	0°	45°	90°
0°	12377	12377	12377
5°	12178	12148	12238
10°	11394	11546	11869
15°	10359	10687	11282
20°	9195	9673	10520
25°	8008	8642	9666
30°	6859	7612	8857
35°	5687	6462	7880
40°	4370	5167	6715
45°	3159	3912	5402
50°	2152	2916	4285
55°	1399	2109	3330
60°	803	1485	2407
65°	213	907	1218
70°	105	281	351
75°	46	23	0
80°	35	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.9	7.7
10°-20°	626.2	19.6
20°-30°	783.9	24.5
30°-40°	724.1	22.6
40°-50°	486.5	15.2
50°-60°	251.3	7.9
60°-70°	78.7	2.5
70°-80°	5.0	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°	1654.9	51.7
0°-40°	2379.0	74.3
0°-60°	3116.8	97.4
0°-90°	3200.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3200.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2683	2683	2683	2683	2683	
5°	2630	2603	2623	2633	2643	244
15°	2169	2161	2238	2313	2362	604
25°	1573	1586	1698	1814	1899	721
35°	1010	1035	1148	1282	1399	626
45°	484	513	600	716	828	380
55°	174	203	262	337	414	162
65°	20	37	83	100	112	33
75°	3	3	1	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2683.0	2683.0	2683.0	2683.0	2683.0
2.5°	2689.2	2663.9	2670.5	2670.4	2663.3
5°	2629.8	2603.1	2623.3	2632.6	2642.8
7.5°	2518.7	2497.9	2536.6	2565.6	2586.7
10°	2432.5	2414.7	2464.9	2504.5	2533.7
12.5°	2332.8	2319.1	2379.8	2434.1	2471.4
15°	2169.0	2161.4	2237.8	2312.9	2362.4
17.5°	1993.5	1993.2	2080.5	2173.7	2233.4
20°	1873.0	1876.9	1970.4	2073.2	2143.0
22.5°	1752.6	1761.5	1861.4	1968.6	2048.5
25°	1573.2	1585.9	1697.8	1814.0	1899.0
27.5°	1400.8	1419.4	1537.1	1657.8	1761.4
30°	1287.6	1309.2	1429.1	1556.2	1662.8
32.5°	1176.5	1202.2	1319.0	1453.4	1562.0
35°	1009.9	1035.2	1147.5	1282.5	1399.3
37.5°	837.7	862.6	972.2	1105.1	1231.3
40°	725.6	753.5	858.0	986.8	1115.0
42.5°	623.8	651.8	750.0	876.6	997.7
45°	484.2	513.4	599.7	716.4	828.1
47.5°	368.4	400.1	475.9	581.5	683.3
50°	299.8	331.6	406.3	499.4	597.1
52.5°	244.8	275.5	342.9	430.6	520.2
55°	173.9	203.1	262.2	336.6	414.1
57.5°	120.2	145.3	198.3	260.5	321.1
60°	87.0	111.1	161.0	211.4	260.9
62.5°	57.9	80.0	128.8	167.4	200.7
65°	19.5	37.2	83.1	100.2	111.6
67.5°	9.9	11.9	43.6	46.0	49.8
70°	7.8	7.8	20.8	22.2	26.0
72.5°	5.7	5.7	8.3	10.7	11.4
75°	2.6	2.6	1.3	0.0	0.0
77.5°	1.3	1.3	1.0	0.0	0.0
80°	1.3	1.3	0.0	0.0	0.0
82.5°	0.3	0.3	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)