

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: P518621

Luminaire Tested: **SQ4-BB-0U-075D-840-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518621  
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-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

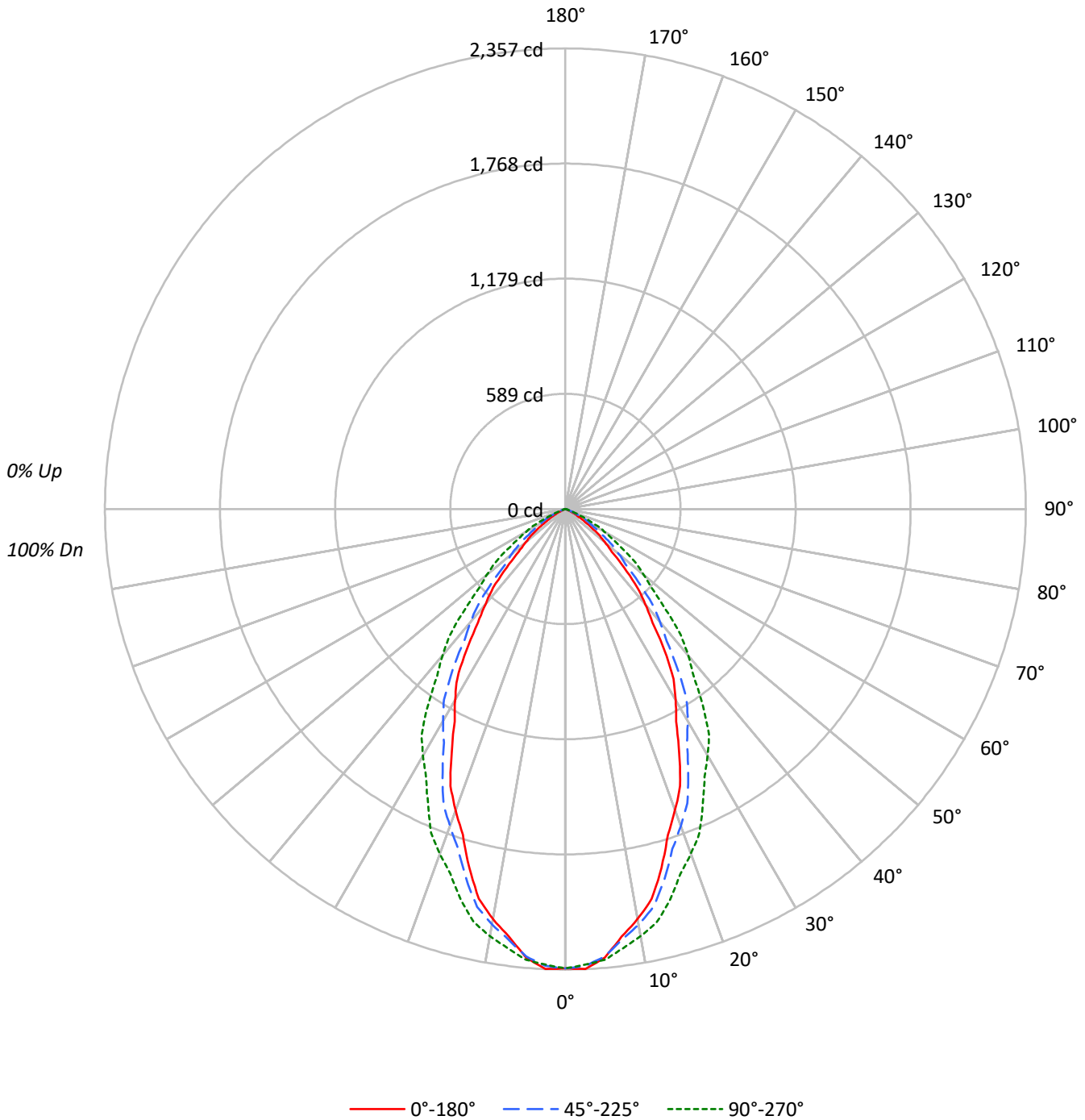
Lumens per Lamp: N/A  
Luminaire Lumens: 2804.7 lumens  
Efficiency: N/A  
Efficacy: 69.4 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 40.4  
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°	14461	14461	14461
5°	14229	14193	14299
10°	13313	13491	13867
15°	12103	12487	13183
20°	10744	11302	12292
25°	9356	10097	11294
30°	8014	8894	10349
35°	6644	7550	9207
40°	5105	6037	7845
45°	3691	4571	6313
50°	2515	3407	5006
55°	1634	2464	3891
60°	937	1735	2812
65°	249	1060	1423
70°	122	327	408
75°	55	26	0
80°	39	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.6	7.7
10°-20°	548.7	19.6
20°-30°	686.9	24.5
30°-40°	634.5	22.6
40°-50°	426.4	15.2
50°-60°	220.2	7.9
60°-70°	69.0	2.5
70°-80°	4.3	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°	1450.2	51.7
0°-40°	2084.7	74.3
0°-60°	2731.3	97.4
0°-90°	2804.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2804.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2351	2351	2351	2351	2351	
5°	2304	2281	2299	2307	2316	214
15°	1901	1894	1961	2027	2070	529
25°	1379	1390	1488	1590	1664	632
35°	885	907	1006	1124	1226	548
45°	424	450	526	628	726	333
55°	152	178	230	295	363	142
65°	17	33	73	88	98	29
75°	2	2	1	0	0	3
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°	2351.1	2351.1	2351.1	2351.1	2351.1
2.5°	2356.6	2334.3	2340.2	2340.1	2333.8
5°	2304.5	2281.1	2298.8	2307.0	2315.9
7.5°	2207.1	2188.9	2222.8	2248.3	2266.7
10°	2131.6	2116.0	2160.0	2194.7	2220.3
12.5°	2044.2	2032.2	2085.4	2133.0	2165.7
15°	1900.7	1894.0	1961.0	2026.8	2070.2
17.5°	1746.9	1746.7	1823.1	1904.8	1957.1
20°	1641.4	1644.7	1726.7	1816.8	1877.9
22.5°	1535.8	1543.6	1631.1	1725.1	1795.1
25°	1378.6	1389.7	1487.8	1589.6	1664.1
27.5°	1227.5	1243.8	1347.0	1452.8	1543.5
30°	1128.4	1147.3	1252.3	1363.7	1457.1
32.5°	1031.0	1053.5	1155.9	1273.6	1368.8
35°	884.9	907.2	1005.5	1123.9	1226.2
37.5°	734.1	755.9	852.0	968.4	1079.0
40°	635.8	660.3	751.9	864.7	977.1
42.5°	546.7	571.1	657.2	768.1	874.3
45°	424.3	449.9	525.5	627.8	725.7
47.5°	322.8	350.6	417.0	509.6	598.8
50°	262.8	290.6	356.0	437.6	523.2
52.5°	214.5	241.4	300.5	377.4	455.9
55°	152.4	178.0	229.8	295.0	362.8
57.5°	105.3	127.3	173.8	228.2	281.4
60°	76.2	97.3	141.0	185.3	228.6
62.5°	50.7	70.1	112.8	146.7	175.9
65°	17.1	32.6	72.8	87.8	97.8
67.5°	8.6	10.4	38.2	40.3	43.7
70°	6.8	6.8	18.2	19.4	22.7
72.5°	5.0	5.0	7.3	9.3	10.0
75°	2.3	2.3	1.1	0.0	0.0
77.5°	1.1	1.1	0.9	0.0	0.0
80°	1.1	1.1	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)