

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: P519301

Luminaire Tested: **SQ4-WB-0U-075D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519301  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-0U-075D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

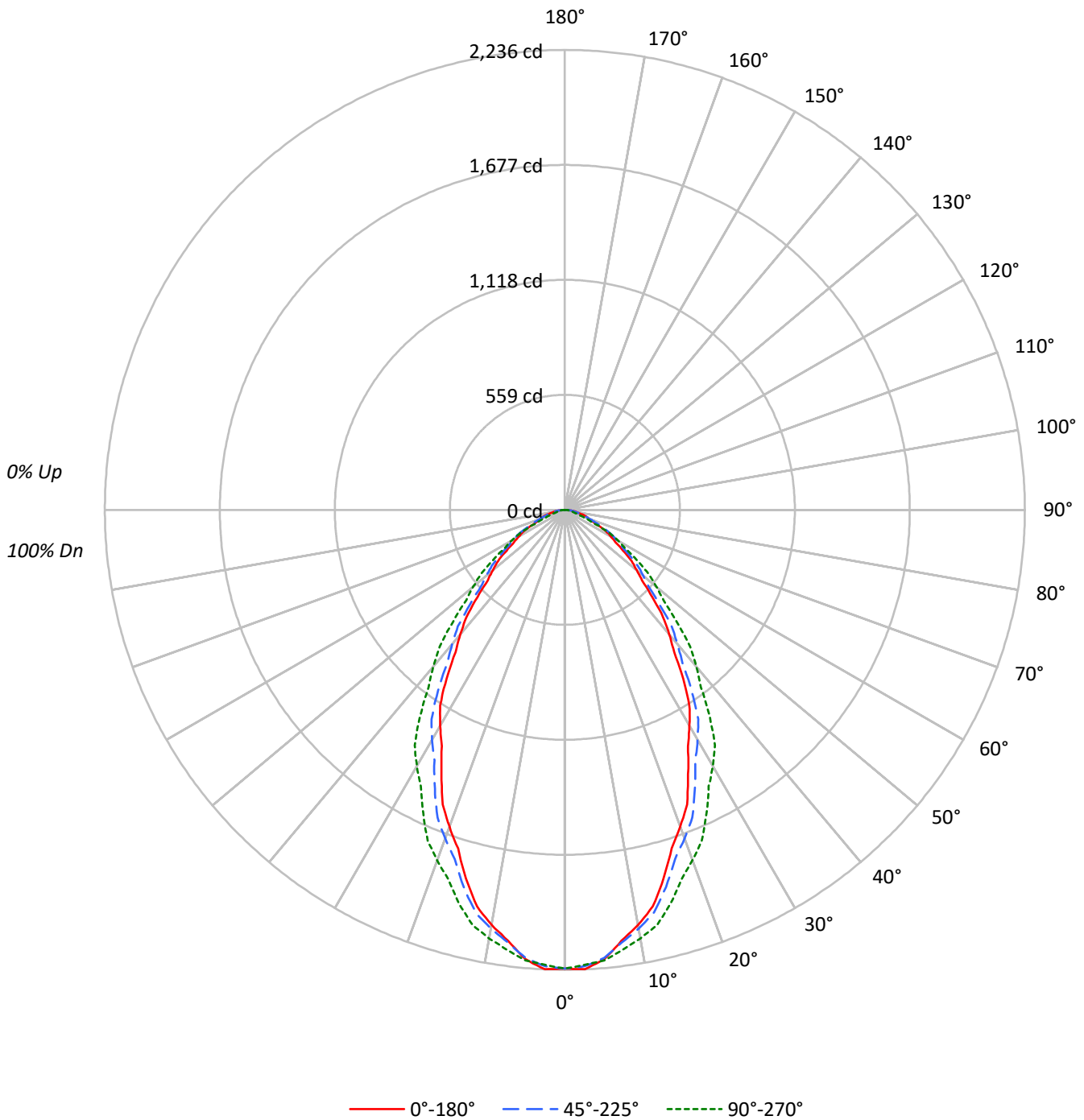
Lumens per Lamp: N/A  
Luminaire Lumens: 3249.8 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35

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

	0°	45°	90°
0°	13718	13718	13718
5°	13546	13498	13576
10°	12798	12914	13214
15°	11815	12089	12631
20°	10729	11133	11869
25°	9623	10148	11058
30°	8604	9167	10217
35°	7525	8068	9221
40°	6333	6836	7983
45°	5226	5678	6665
50°	4363	4757	5553
55°	3704	4082	4585
60°	3166	3539	3660
65°	2521	2976	2364
70°	2235	2323	1442
75°	2070	1885	884
80°	1906	1732	762
85°	1729	1588	621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.6	6.3
10°-20°	532.1	16.4
20°-30°	689.2	21.2
30°-40°	674.9	20.8
40°-50°	516.6	15.9
50°-60°	344.2	10.6
60°-70°	187.8	5.8
70°-80°	78.3	2.4
80°-90°	22.2	0.7
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°	1425.8	43.9
0°-40°	2100.7	64.6
0°-60°	2961.5	91.1
0°-90°	3249.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3249.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2230	2230	2230	2230	2230	
5°	2194	2172	2186	2191	2199	204
15°	1855	1849	1898	1950	1984	518
25°	1418	1422	1495	1560	1629	652
35°	1002	1007	1074	1147	1228	623
45°	601	612	653	702	766	469
55°	345	360	381	395	428	313
65°	173	188	204	179	162	180
75°	87	87	79	54	37	93
85°	24	24	22	14	9	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2230.2	2230.2	2230.2	2230.2	2230.2
2.5°	2235.6	2215.7	2220.8	2220.6	2214.5
5°	2194.0	2171.9	2186.1	2191.2	2198.8
7.5°	2112.5	2095.9	2121.7	2140.9	2156.4
10°	2049.1	2034.8	2067.7	2095.6	2115.7
12.5°	1975.5	1963.5	2004.3	2041.7	2067.9
15°	1855.4	1848.7	1898.4	1950.1	1983.6
17.5°	1726.8	1723.5	1780.6	1840.9	1883.7
20°	1639.1	1638.1	1700.8	1763.5	1813.3
22.5°	1550.6	1552.7	1618.6	1683.8	1740.5
25°	1417.9	1421.8	1495.3	1560.4	1629.3
27.5°	1295.2	1297.0	1372.9	1441.7	1515.2
30°	1211.5	1216.3	1290.7	1362.0	1438.5
32.5°	1127.7	1133.3	1206.2	1279.8	1357.9
35°	1002.1	1006.8	1074.5	1146.8	1228.1
37.5°	872.5	879.0	939.0	1007.4	1087.4
40°	788.7	798.3	851.4	915.8	994.2
42.5°	708.1	720.0	769.2	830.3	901.1
45°	600.8	612.3	652.7	702.1	766.2
47.5°	508.5	521.7	552.7	595.2	650.0
50°	456.0	468.5	497.1	528.6	580.3
52.5°	409.8	422.3	447.8	472.1	516.1
55°	345.4	359.8	380.7	395.1	427.6
57.5°	292.6	306.4	322.9	329.4	349.2
60°	257.4	272.7	287.7	287.0	297.5
62.5°	225.3	238.3	253.3	242.9	243.5
65°	173.2	187.6	204.5	178.7	162.4
67.5°	139.9	143.0	160.5	124.6	105.3
70°	124.3	124.3	129.2	96.5	80.2
72.5°	109.4	109.4	104.9	78.5	61.5
75°	87.1	87.1	79.3	54.4	37.2
77.5°	67.1	66.4	60.7	40.6	27.0
80°	53.8	53.8	48.9	32.1	21.5
82.5°	42.1	42.1	38.0	25.0	16.0
85°	24.5	24.5	22.5	14.5	8.8
87.5°	8.6	8.6	7.8	4.7	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)