

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: P564172

Luminaire Tested: **SQ4-PR1-0U-075D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564172  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-0U-075D-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

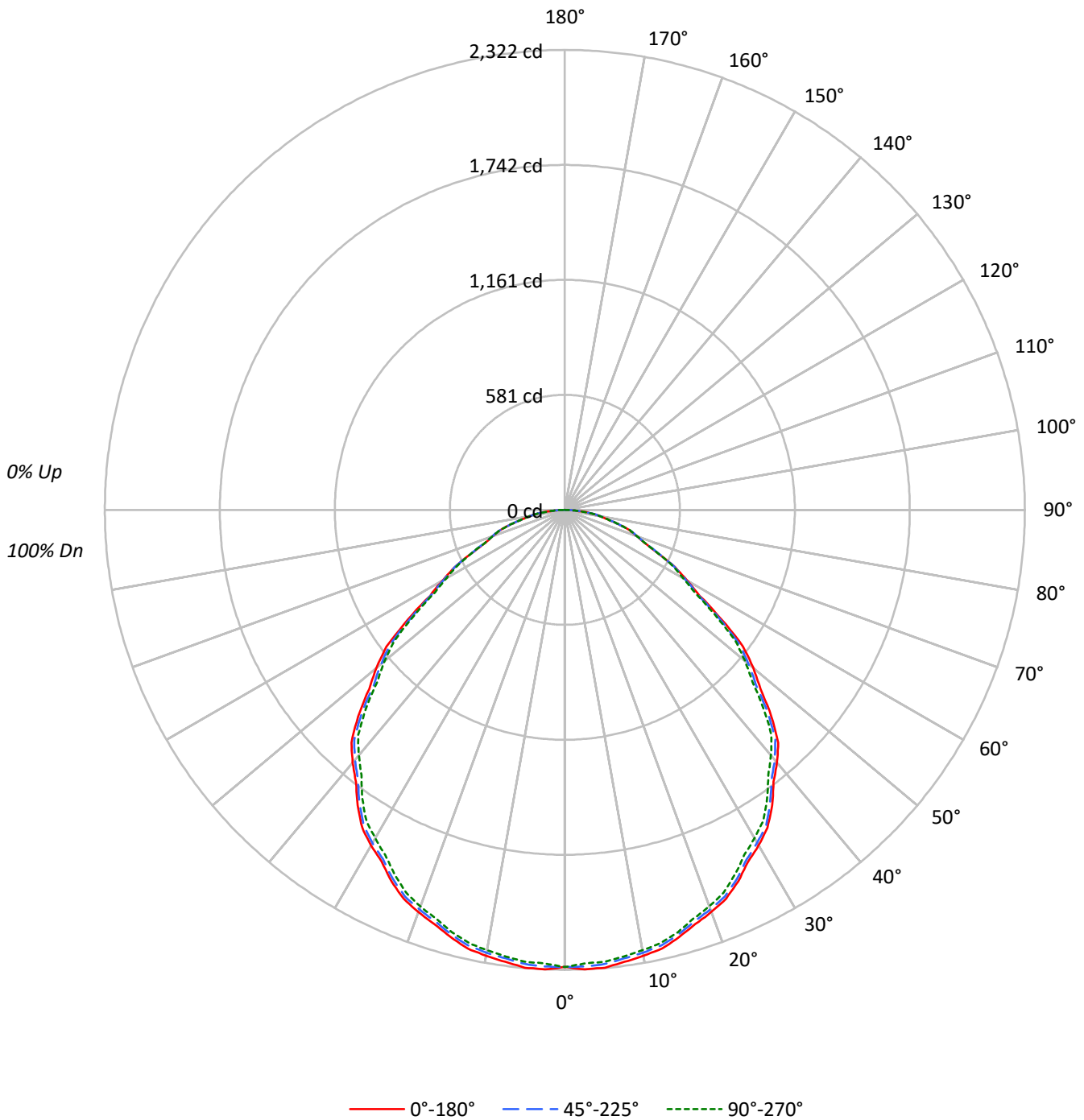
Lumens per Lamp: N/A  
Luminaire Lumens: 5769.7 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

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

	0°	45°	90°
0°	10647	10647	10647
5°	10743	10660	10605
10°	10709	10634	10578
15°	10662	10595	10538
20°	10608	10540	10462
25°	10533	10462	10341
30°	10420	10346	10198
35°	10266	10176	10031
40°	10032	9924	9745
45°	9623	9454	9260
50°	8903	8688	8517
55°	7770	7595	7435
60°	6548	6492	6364
65°	5663	5685	5642
70°	5202	5228	5228
75°	4996	4996	5032
80°	4699	4753	4699
85°	3790	4208	4208



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.3	3.8
10°-20°	624.4	10.8
20°-30°	941.9	16.3
30°-40°	1122.2	19.5
40°-50°	1106.4	19.2
50°-60°	845.6	14.7
60°-70°	523.3	9.1
70°-80°	297.2	5.2
80°-90°	90.4	1.6
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°	1784.6	30.9
0°-40°	2906.8	50.4
0°-60°	4858.8	84.2
0°-90°	5769.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5769.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2308	2308	2308	2308	2308	
5°	2320	2295	2302	2294	2290	220
15°	2232	2209	2218	2210	2207	630
25°	2069	2044	2056	2034	2032	952
35°	1823	1802	1807	1783	1781	1138
45°	1475	1456	1449	1423	1419	1130
55°	966	951	944	928	924	866
65°	519	515	521	517	517	526
75°	280	280	280	282	282	296
85°	72	76	80	80	80	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2308.0	2308.0	2308.0	2308.0	2308.0
2.5°	2322.3	2302.1	2308.0	2303.0	2292.1
5°	2319.9	2294.6	2302.0	2294.0	2290.1
7.5°	2302.0	2277.1	2284.5	2276.5	2274.2
10°	2286.1	2262.8	2270.2	2262.2	2258.3
12.5°	2268.6	2243.7	2252.7	2243.1	2239.2
15°	2232.4	2209.1	2218.5	2210.5	2206.6
17.5°	2192.7	2167.8	2177.2	2167.9	2162.9
20°	2160.9	2137.5	2147.0	2133.0	2131.1
22.5°	2125.9	2102.6	2112.0	2093.3	2092.9
25°	2069.4	2044.2	2055.5	2033.6	2031.7
27.5°	2002.2	1978.9	1988.3	1966.0	1963.7
30°	1956.1	1932.8	1942.2	1918.3	1914.4
32.5°	1903.6	1881.9	1889.7	1865.8	1863.5
35°	1822.9	1801.5	1807.0	1783.1	1781.2
37.5°	1731.1	1711.6	1714.8	1688.5	1686.6
40°	1665.9	1646.4	1648.0	1620.1	1618.2
42.5°	1594.3	1574.9	1573.2	1545.4	1543.4
45°	1475.0	1455.6	1449.2	1423.3	1419.4
47.5°	1339.1	1319.6	1307.7	1286.5	1283.8
50°	1240.5	1221.0	1210.6	1192.6	1186.8
52.5°	1133.9	1114.5	1105.7	1089.3	1083.4
55°	966.1	950.6	944.3	928.3	924.4
57.5°	806.7	796.2	794.4	778.8	777.3
60°	709.7	703.9	703.7	689.8	689.8
62.5°	627.0	622.7	625.8	616.6	615.1
65°	518.8	515.0	520.8	516.9	516.9
67.5°	433.4	433.4	436.9	435.4	435.4
70°	385.7	385.7	387.6	387.6	387.6
72.5°	342.7	341.2	346.3	346.3	344.7
75°	280.3	280.3	280.3	282.3	282.3
77.5°	218.3	218.7	220.3	219.8	218.3
80°	176.9	178.9	178.9	176.9	176.9
82.5°	135.6	137.5	137.6	137.1	135.6
85°	71.6	75.5	79.5	79.5	79.5
87.5°	20.7	26.9	31.8	31.8	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)