

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: P564145

Luminaire Tested: **SQ4-PR1-0U-050D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564145
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-050D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

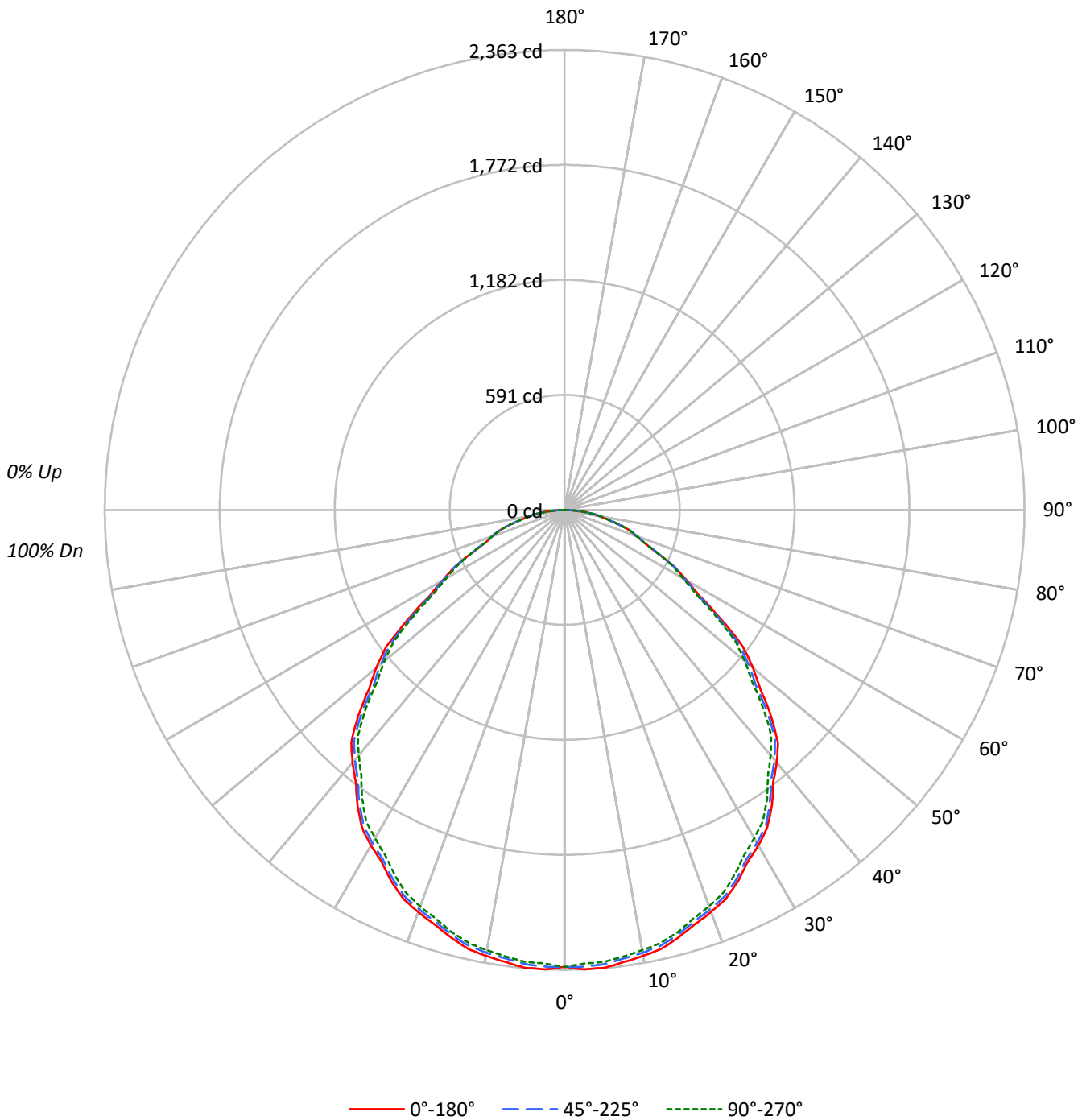
Lumens per Lamp: N/A
Luminaire Lumens: 5871.9 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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°	7224	7224	7224
5°	7289	7233	7195
10°	7266	7215	7177
15°	7234	7189	7150
20°	7197	7151	7098
25°	7147	7099	7016
30°	7070	7019	6919
35°	6965	6904	6806
40°	6806	6733	6611
45°	6529	6415	6283
50°	6040	5895	5779
55°	5272	5153	5044
60°	4443	4405	4318
65°	3842	3858	3828
70°	3529	3547	3547
75°	3390	3390	3414
80°	3190	3225	3190
85°	2569	2855	2855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.1	3.8
10°-20°	635.5	10.8
20°-30°	958.6	16.3
30°-40°	1142.1	19.5
40°-50°	1126.0	19.2
50°-60°	860.6	14.7
60°-70°	532.5	9.1
70°-80°	302.5	5.2
80°-90°	92.0	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°	1816.2	30.9
0°-40°	2958.3	50.4
0°-60°	4944.9	84.2
0°-90°	5871.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5871.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2349	2349	2349	2349	2349	
5°	2361	2335	2343	2335	2331	224
15°	2272	2248	2258	2250	2246	641
25°	2106	2080	2092	2070	2068	969
35°	1855	1834	1839	1815	1813	1158
45°	1501	1481	1475	1448	1444	1150
55°	983	967	961	945	941	881
65°	528	524	530	526	526	535
75°	285	285	285	287	287	301
85°	73	77	81	81	81	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2348.9	2348.9	2348.9	2348.9	2348.9
2.5°	2363.4	2342.9	2348.9	2343.8	2332.7
5°	2361.0	2335.3	2342.8	2334.6	2330.7
7.5°	2342.8	2317.5	2325.0	2316.9	2314.5
10°	2326.6	2302.9	2310.4	2302.3	2298.3
12.5°	2308.8	2283.5	2292.6	2282.8	2278.9
15°	2272.0	2248.3	2257.8	2249.7	2245.7
17.5°	2231.5	2206.2	2215.8	2206.3	2201.2
20°	2199.2	2175.4	2185.0	2170.8	2168.8
22.5°	2163.6	2139.8	2149.4	2130.4	2130.0
25°	2106.1	2080.4	2091.9	2069.6	2067.7
27.5°	2037.7	2014.0	2023.6	2000.8	1998.5
30°	1990.8	1967.0	1976.6	1952.2	1948.3
32.5°	1937.4	1915.2	1923.2	1898.9	1896.5
35°	1855.2	1833.5	1839.0	1814.7	1812.7
37.5°	1761.8	1742.0	1745.2	1718.4	1716.4
40°	1695.4	1675.6	1677.2	1648.8	1646.8
42.5°	1622.6	1602.8	1601.1	1572.8	1570.8
45°	1501.2	1481.4	1474.9	1448.5	1444.5
47.5°	1362.8	1343.0	1330.8	1309.3	1306.5
50°	1262.4	1242.7	1232.1	1213.8	1207.8
52.5°	1154.0	1134.2	1125.3	1108.6	1102.6
55°	983.3	967.4	961.0	944.7	940.8
57.5°	821.0	810.3	808.5	792.6	791.1
60°	722.3	716.3	716.2	702.0	702.0
62.5°	638.1	633.7	636.9	627.5	626.0
65°	528.0	524.1	530.1	526.0	526.0
67.5°	441.0	441.0	444.7	443.1	443.1
70°	392.5	392.5	394.5	394.5	394.5
72.5°	348.8	347.2	352.4	352.4	350.8
75°	285.3	285.3	285.3	287.3	287.3
77.5°	222.1	222.5	224.2	223.7	222.1
80°	180.1	182.0	182.1	180.1	180.1
82.5°	138.0	140.0	140.0	139.6	138.0
85°	72.8	76.8	80.9	80.9	80.9
87.5°	21.0	27.4	32.4	32.3	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)