

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: P564141

Luminaire Tested: **SQ4-PR1-0U-050D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564141
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-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

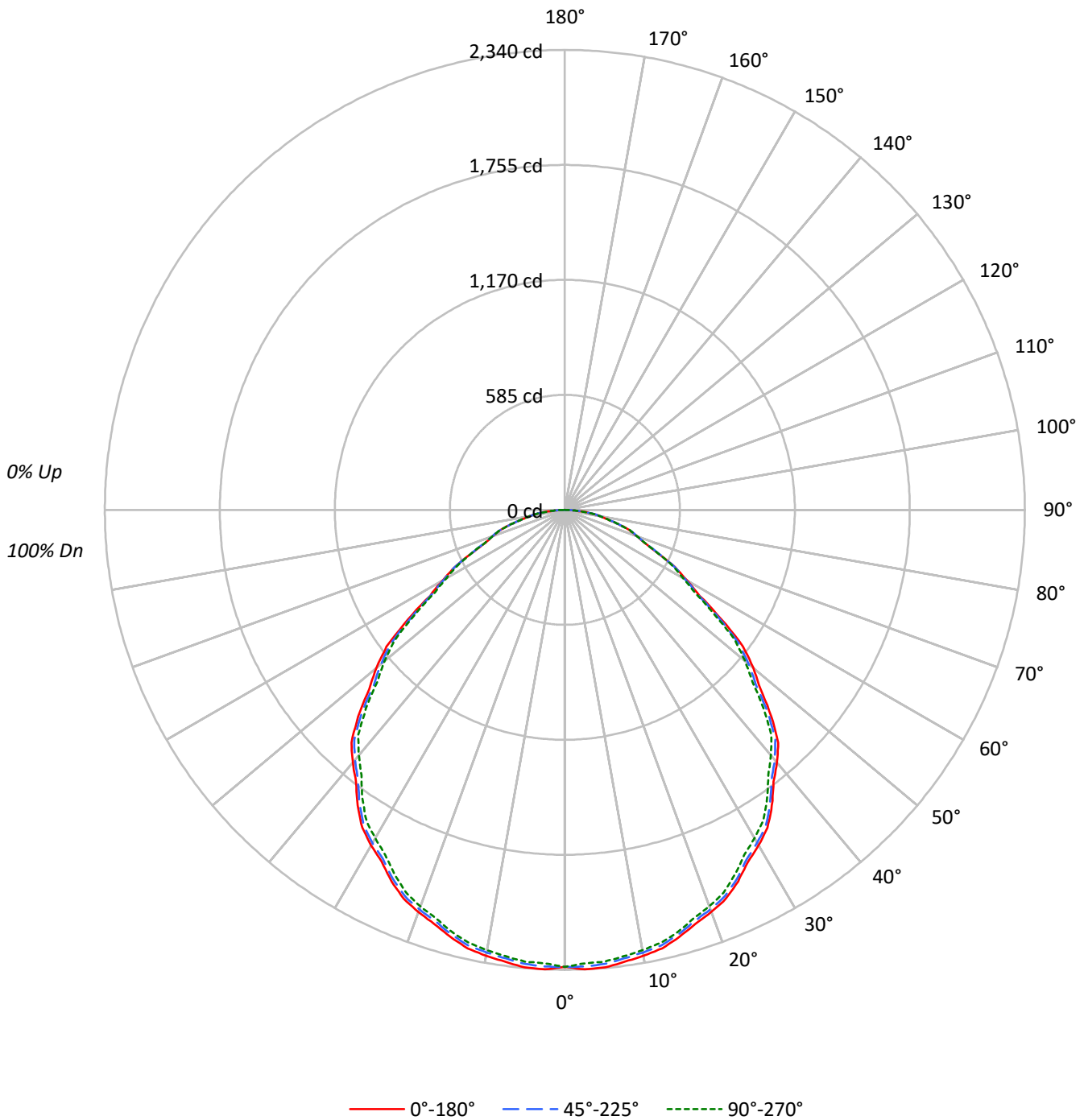
Lumens per Lamp: N/A
Luminaire Lumens: 5813.4 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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°	7152	7152	7152
5°	7216	7161	7123
10°	7193	7143	7106
15°	7162	7117	7079
20°	7126	7080	7027
25°	7075	7028	6946
30°	6999	6949	6850
35°	6896	6836	6738
40°	6739	6666	6545
45°	6464	6351	6220
50°	5980	5836	5721
55°	5220	5101	4994
60°	4398	4362	4275
65°	3804	3819	3790
70°	3494	3512	3512
75°	3356	3356	3379
80°	3158	3193	3158
85°	2544	2826	2826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	3.8
10°-20°	629.2	10.8
20°-30°	949.0	16.3
30°-40°	1130.7	19.5
40°-50°	1114.8	19.2
50°-60°	852.0	14.7
60°-70°	527.3	9.1
70°-80°	299.5	5.2
80°-90°	91.1	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°	1798.1	30.9
0°-40°	2928.8	50.4
0°-60°	4895.6	84.2
0°-90°	5813.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5813.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2326	2326	2326	2326	2326	
5°	2338	2312	2320	2311	2307	222
15°	2249	2226	2235	2227	2223	635
25°	2085	2060	2071	2049	2047	960
35°	1837	1815	1821	1797	1795	1146
45°	1486	1467	1460	1434	1430	1139
55°	974	958	951	935	931	872
65°	523	519	525	521	521	530
75°	282	282	282	284	284	298
85°	72	76	80	80	80	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2325.5	2325.5	2325.5	2325.5	2325.5
2.5°	2339.9	2319.5	2325.5	2320.4	2309.5
5°	2337.5	2312.0	2319.5	2311.4	2307.4
7.5°	2319.5	2294.4	2301.8	2293.8	2291.4
10°	2303.4	2279.9	2287.4	2279.3	2275.4
12.5°	2285.8	2260.7	2269.8	2260.1	2256.2
15°	2249.4	2225.9	2235.3	2227.2	2223.3
17.5°	2209.3	2184.2	2193.7	2184.3	2179.3
20°	2177.3	2153.8	2163.2	2149.2	2147.2
22.5°	2142.0	2118.5	2128.0	2109.1	2108.8
25°	2085.1	2059.7	2071.1	2049.0	2047.1
27.5°	2017.4	1993.9	2003.4	1980.9	1978.6
30°	1970.9	1947.4	1956.9	1932.8	1928.9
32.5°	1918.1	1896.1	1904.0	1880.0	1877.6
35°	1836.7	1815.2	1820.7	1796.6	1794.7
37.5°	1744.2	1724.6	1727.8	1701.3	1699.3
40°	1678.5	1658.9	1660.5	1632.4	1630.4
42.5°	1606.4	1586.8	1585.2	1557.1	1555.1
45°	1486.2	1466.6	1460.2	1434.1	1430.1
47.5°	1349.2	1329.6	1317.6	1296.3	1293.5
50°	1249.9	1230.3	1219.8	1201.7	1195.8
52.5°	1142.5	1122.9	1114.1	1097.5	1091.6
55°	973.5	957.8	951.4	935.3	931.4
57.5°	812.8	802.2	800.4	784.7	783.2
60°	715.1	709.2	709.1	695.0	695.0
62.5°	631.7	627.4	630.5	621.3	619.7
65°	522.8	518.9	524.8	520.8	520.8
67.5°	436.7	436.7	440.3	438.7	438.7
70°	388.6	388.6	390.6	390.6	390.6
72.5°	345.3	343.7	348.9	348.9	347.3
75°	282.4	282.4	282.4	284.4	284.4
77.5°	219.9	220.3	221.9	221.5	219.9
80°	178.3	180.2	180.3	178.3	178.3
82.5°	136.6	138.6	138.6	138.2	136.6
85°	72.1	76.0	80.1	80.1	80.1
87.5°	20.8	27.1	32.0	32.0	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)