

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: P564153

Luminaire Tested: **SQ4-PR1-0U-050D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564153
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-935-1D-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

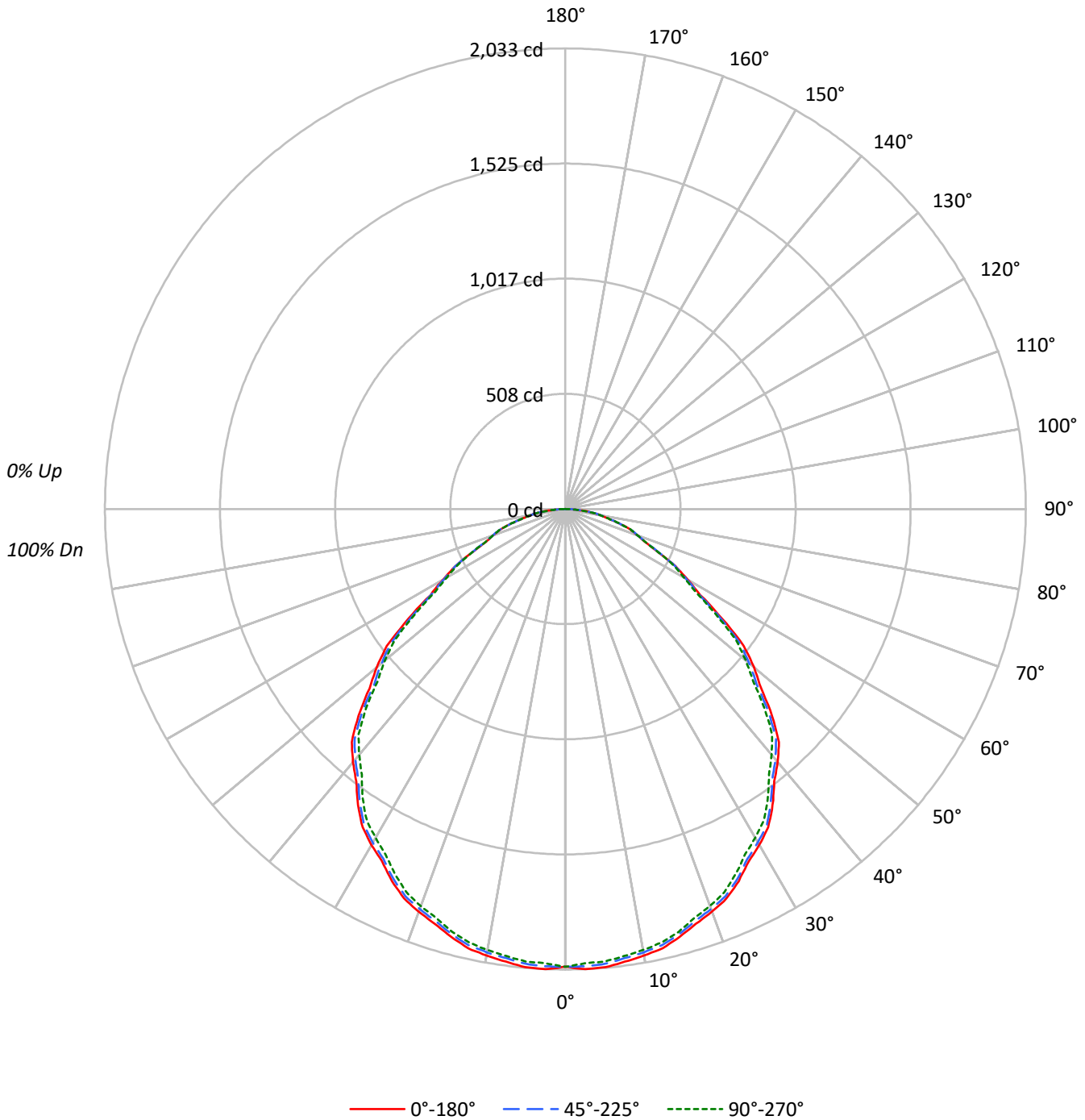
Lumens per Lamp: N/A
Luminaire Lumens: 5051.2 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6214	6214	6214
5°	6270	6222	6189
10°	6250	6207	6174
15°	6223	6184	6151
20°	6191	6152	6106
25°	6148	6107	6036
30°	6081	6038	5952
35°	5992	5939	5855
40°	5855	5792	5688
45°	5617	5518	5404
50°	5196	5071	4971
55°	4535	4433	4339
60°	3821	3790	3714
65°	3305	3318	3293
70°	3036	3052	3052
75°	2916	2916	2936
80°	2743	2773	2743
85°	2212	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	3.8
10°-20°	546.7	10.8
20°-30°	824.6	16.3
30°-40°	982.5	19.5
40°-50°	968.6	19.2
50°-60°	740.3	14.7
60°-70°	458.1	9.1
70°-80°	260.2	5.2
80°-90°	79.1	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°	1562.4	30.9
0°-40°	2544.8	50.4
0°-60°	4253.8	84.2
0°-90°	5051.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5051.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2021	2021	2021	2021	2021	
5°	2031	2009	2015	2008	2005	193
15°	1954	1934	1942	1935	1932	552
25°	1812	1790	1800	1780	1779	834
35°	1596	1577	1582	1561	1559	996
45°	1291	1274	1269	1246	1243	989
55°	846	832	827	813	809	758
65°	454	451	456	452	452	460
75°	245	245	245	247	247	259
85°	63	66	70	70	70	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2020.6	2020.6	2020.6	2020.6	2020.6
2.5°	2033.1	2015.4	2020.6	2016.2	2006.7
5°	2031.0	2008.9	2015.4	2008.3	2004.9
7.5°	2015.4	1993.6	2000.1	1993.0	1991.0
10°	2001.4	1981.0	1987.5	1980.5	1977.1
12.5°	1986.1	1964.3	1972.2	1963.8	1960.4
15°	1954.5	1934.0	1942.3	1935.2	1931.8
17.5°	1919.6	1897.9	1906.1	1898.0	1893.5
20°	1891.8	1871.4	1879.6	1867.4	1865.7
22.5°	1861.2	1840.7	1849.0	1832.6	1832.3
25°	1811.7	1789.6	1799.6	1780.4	1778.7
27.5°	1752.9	1732.5	1740.7	1721.2	1719.2
30°	1712.5	1692.1	1700.4	1679.4	1676.0
32.5°	1666.6	1647.5	1654.4	1633.5	1631.4
35°	1595.9	1577.2	1582.0	1561.1	1559.4
37.5°	1515.5	1498.5	1501.3	1478.2	1476.5
40°	1458.4	1441.4	1442.8	1418.4	1416.7
42.5°	1395.8	1378.8	1377.3	1352.9	1351.2
45°	1291.4	1274.3	1268.7	1246.0	1242.6
47.5°	1172.3	1155.3	1144.8	1126.3	1123.9
50°	1086.0	1069.0	1059.9	1044.1	1039.0
52.5°	992.7	975.7	968.0	953.6	948.5
55°	845.8	832.2	826.7	812.7	809.3
57.5°	706.2	697.1	695.5	681.9	680.5
60°	621.3	616.2	616.1	603.9	603.9
62.5°	548.9	545.2	547.9	539.8	538.5
65°	454.2	450.8	456.0	452.5	452.5
67.5°	379.4	379.4	382.5	381.1	381.1
70°	337.6	337.6	339.4	339.4	339.4
72.5°	300.0	298.7	303.2	303.1	301.8
75°	245.4	245.4	245.4	247.1	247.1
77.5°	191.1	191.4	192.8	192.5	191.1
80°	154.9	156.6	156.6	154.9	154.9
82.5°	118.7	120.4	120.4	120.1	118.7
85°	62.7	66.1	69.6	69.6	69.6
87.5°	18.1	23.5	27.8	27.8	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)