

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: P563865

Luminaire Tested: **SQ4-PR1-025U-050D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563865
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-050D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7571.1 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: Semi-Direct

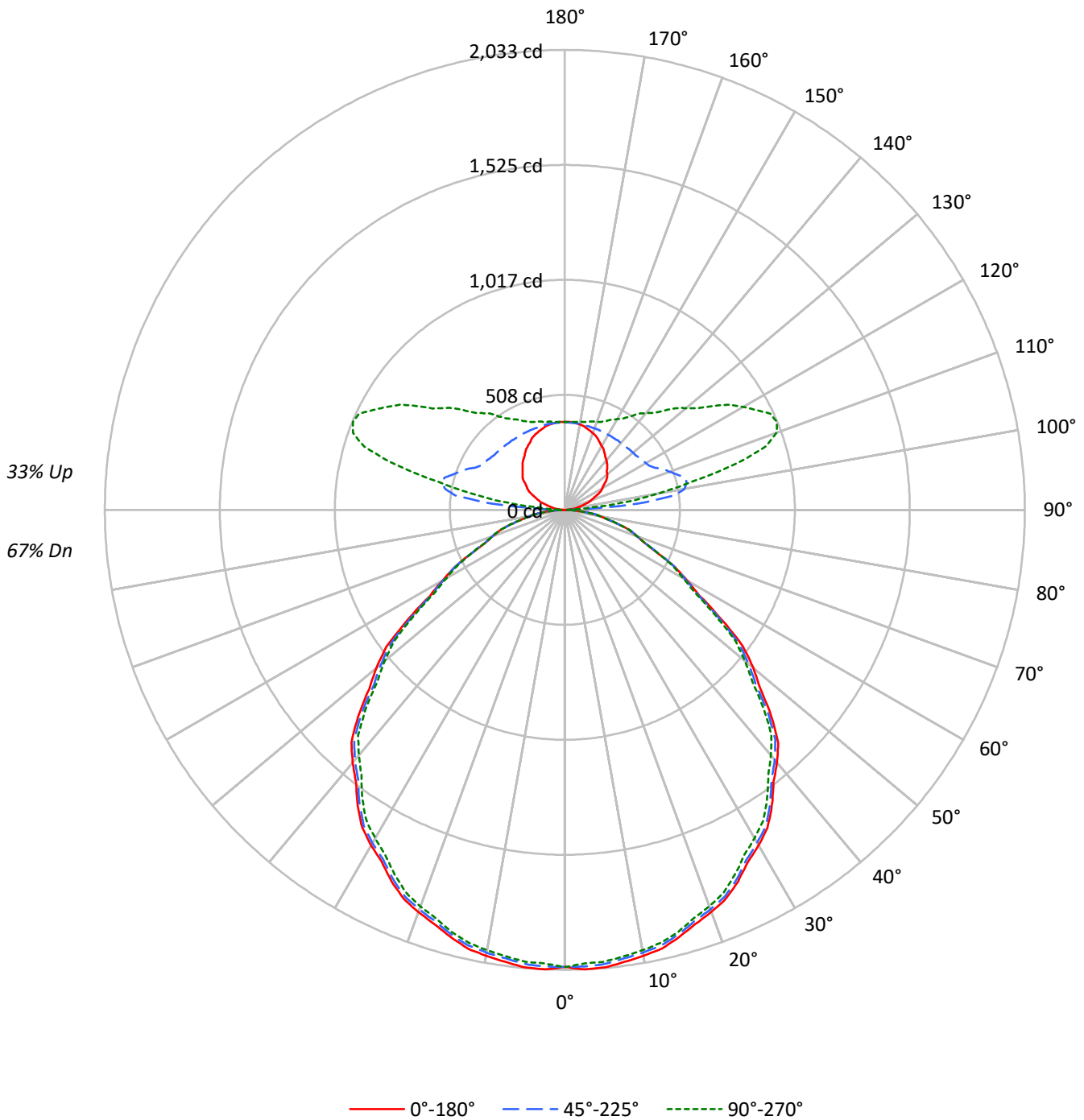
Input Watts (W): 68.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57
2	93	86	80	74	88	81	76	71	72	68	64	64	61	58	57	54	52	48
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	47	45	41
4	78	67	59	53	73	64	57	51	57	51	47	51	47	43	45	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	62	52	44	39	46	40	36	42	37	33	37	33	30	28
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	24
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	35	30	25	32	27	24	29	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18

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	2.5
10°-20°	546.7	7.2
20°-30°	824.6	10.9
30°-40°	982.5	13.0
40°-50°	968.6	12.8
50°-60°	740.3	9.8
60°-70°	458.1	6.1
70°-80°	260.2	3.4
80°-90°	81.2	1.1
90°-100°	189.3	2.5
100°-110°	497.7	6.6
110°-120°	516.1	6.8
120°-130°	414.0	5.5
130°-140°	324.8	4.3
140°-150°	249.3	3.3
150°-160°	179.6	2.4
160°-170°	109.9	1.5
170°-180°	37.1	0.5
0°-30°	1562.4	20.6
0°-40°	2544.8	33.6
0°-60°	4253.8	56.2
0°-90°	5053.3	66.7
90°-120°	1203.2	15.9
90°-150°	2191.3	28.9
90°-180°	2518.0	33.3
0°-180°	7571.1	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	73
90°	2	7	20	10	10	5
95°	25	98	326	168	114	28
105°	90	136	550	835	779	95
115°	159	194	441	879	1004	157
125°	222	248	401	678	799	197
135°	264	291	388	547	620	204
145°	306	326	384	466	503	192
155°	346	356	384	421	433	159
165°	374	378	384	398	403	105
175°	388	388	386	391	391	37
180°	388	388	388	388	388	

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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°	18.6	25.0	31.8	29.8	28.4
90°	2.5	7.4	19.9	10.0	10.0
92.5°	10.5	50.4	111.6	49.4	31.9
95°	24.9	97.9	326.2	168.1	114.5
97.5°	43.3	107.6	488.1	388.1	285.9
100°	57.3	115.7	537.9	545.1	423.3
102.5°	69.2	123.8	551.8	678.9	574.7
105°	89.6	135.9	550.3	835.4	779.4
107.5°	110.6	153.4	518.9	916.7	930.3
110°	124.5	163.5	493.0	937.6	996.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.5	175.5	469.1	924.4	1014.0
115°	159.4	193.5	440.8	879.3	1003.5
117.5°	179.8	211.0	421.3	816.9	954.7
120°	191.7	221.0	413.4	775.0	908.9
122.5°	203.7	232.9	407.4	733.1	865.1
125°	221.6	248.4	400.9	677.6	799.3
127.5°	236.1	263.3	395.4	632.8	735.6
130°	244.0	273.2	393.4	604.8	699.7
132.5°	252.0	281.2	391.4	580.6	665.9
135°	264.0	290.7	388.5	547.0	620.0
137.5°	276.4	302.7	388.0	521.8	581.7
140°	286.4	310.7	386.0	501.8	557.8
142.5°	294.3	316.7	386.0	487.7	535.9
145°	306.3	325.8	383.5	466.5	503.0
147.5°	318.2	337.2	383.5	448.9	479.1
150°	326.2	343.3	383.5	438.8	463.2
152.5°	334.2	347.3	383.5	430.7	449.2
155°	346.1	355.9	383.5	421.1	433.3
157.5°	355.1	364.3	383.5	412.6	421.3
160°	361.1	368.4	383.5	408.5	413.4
162.5°	367.0	372.4	383.5	404.5	409.4
165°	373.5	378.4	383.5	398.5	403.4
167.5°	379.5	381.9	386.0	396.0	397.9
170°	383.5	385.9	386.0	395.9	395.9
172.5°	385.5	386.0	386.0	393.9	391.9
175°	388.5	388.5	386.0	390.9	390.9
177.5°	388.5	388.5	386.5	390.4	388.5
180°	388.5	388.5	388.5	388.5	388.5

(END OF REPORT)