

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: P523869

Luminaire Tested: **SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523869
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9550.4 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

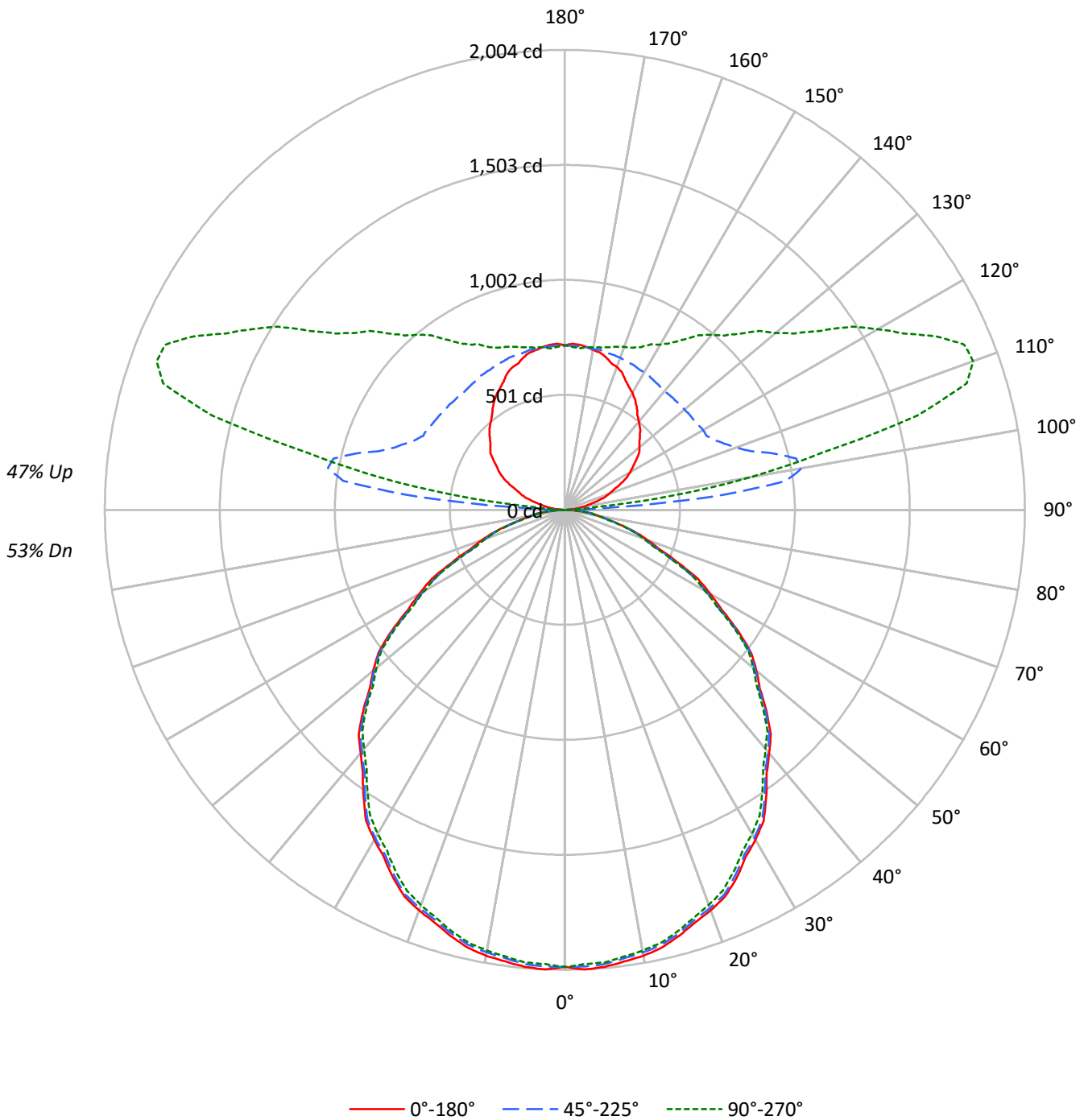
Input Watts (W): 88.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53	53	53	53	
1	99	95	91	87	91	88	84	81	75	73	70	63	62	60	53	52	50	45	45	45	45	
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	38	38	38	38	
3	82	73	66	60	76	68	61	56	58	54	50	50	46	43	41	39	37	33	33	33	33	
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32	28	28	28	28	
5	69	58	49	44	64	54	47	41	47	41	37	40	35	32	33	30	28	24	24	24	24	
6	64	52	44	38	59	48	41	36	42	36	32	36	31	28	30	27	24	22	22	22	22	
7	59	47	39	33	55	44	37	31	38	32	28	33	28	25	28	24	22	19	19	19	19	
8	55	42	35	29	51	40	33	28	35	29	25	30	25	22	25	22	19	17	17	17	17	
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15	15	15	15	
10	48	36	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14	14	14	14	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18377	18377	18377
5°	18512	18399	18334
10°	18480	18349	18268
15°	18358	18258	18158
20°	18237	18133	17996
25°	18020	17895	17717
30°	17686	17593	17371
35°	17224	17105	16889
40°	16672	16568	16379
45°	16217	16104	15944
50°	15635	15535	15384
55°	14826	14630	14517
60°	13496	13110	13046
65°	11889	11396	11357
70°	10267	9841	9841
75°	8837	8712	8587
80°	7789	7885	7699
85°	6097	6648	6648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	2.0
10°-20°	537.8	5.6
20°-30°	805.5	8.4
30°-40°	944.8	9.9
40°-50°	947.8	9.9
50°-60°	808.5	8.5
60°-70°	527.3	5.5
70°-80°	264.5	2.8
80°-90°	73.2	0.8
90°-100°	326.6	3.4
100°-110°	929.4	9.7
110°-120°	890.4	9.3
120°-130°	704.7	7.4
130°-140°	565.7	5.9
140°-150°	442.8	4.6
150°-160°	324.0	3.4
160°-170°	200.7	2.1
170°-180°	68.1	0.7
0°-30°	1531.7	16.0
0°-40°	2476.5	25.9
0°-60°	4232.8	44.3
0°-90°	5097.9	53.4
90°-120°	2146.4	22.5
90°-150°	3859.7	40.4
90°-180°	4453.0	46.6
0°-180°	9550.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1992	1992	1992	1992	1992	
5°	1999	1980	1987	1980	1980	190
15°	1922	1903	1912	1904	1901	542
25°	1770	1750	1758	1742	1740	814
35°	1529	1514	1519	1501	1500	955
45°	1243	1234	1234	1222	1222	957
55°	922	918	910	904	902	819
65°	545	534	522	518	520	544
75°	248	248	244	243	241	269
85°	58	63	63	63	63	68
90°	0	0	0	0	0	4
95°	35	141	632	219	135	40
105°	144	219	947	1673	1590	153
115°	268	324	718	1521	1786	264
125°	379	420	686	1138	1360	339
135°	463	502	677	961	1086	358
145°	546	574	683	832	906	341
155°	624	639	699	752	782	289
165°	690	692	707	722	733	194
175°	722	718	715	711	706	68
180°	717	717	717	717	717	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1991.8	1991.8	1991.8	1991.8	1991.8
2.5°	2004.4	1988.0	1991.8	1988.8	1980.6
5°	1998.8	1980.0	1986.6	1979.6	1979.6
7.5°	1985.2	1964.7	1971.2	1964.2	1963.9
10°	1972.6	1952.1	1958.6	1951.6	1949.9
12.5°	1954.4	1934.0	1941.9	1933.5	1933.1
15°	1922.0	1903.2	1911.5	1904.4	1901.0
17.5°	1885.3	1864.8	1874.8	1865.0	1863.7
20°	1857.4	1836.9	1846.9	1832.9	1832.9
22.5°	1823.9	1803.4	1814.8	1796.6	1796.6
25°	1770.1	1749.6	1757.9	1742.1	1740.4
27.5°	1706.2	1686.1	1694.7	1676.9	1676.5
30°	1660.1	1641.4	1651.4	1632.2	1630.5
32.5°	1609.9	1592.4	1599.7	1580.5	1578.8
35°	1529.2	1513.8	1518.7	1501.2	1499.5
37.5°	1444.4	1428.7	1434.2	1419.2	1418.5
40°	1384.3	1374.1	1375.6	1363.3	1359.9
42.5°	1328.5	1316.8	1318.3	1306.1	1305.4
45°	1242.9	1234.4	1234.2	1222.0	1222.0
47.5°	1152.1	1145.7	1143.8	1133.6	1133.3
50°	1089.3	1084.2	1082.3	1073.5	1071.8
52.5°	1023.7	1021.3	1015.3	1007.9	1007.6
55°	921.7	918.3	909.5	904.2	902.5
57.5°	811.0	804.2	794.3	786.6	788.0
60°	731.4	724.6	710.5	707.0	707.0
62.5°	654.6	646.4	632.3	627.5	630.2
65°	544.6	534.4	522.0	518.5	520.2
67.5°	444.8	435.6	422.1	422.1	420.7
70°	380.6	375.4	364.8	364.8	364.8
72.5°	323.3	320.9	313.2	313.1	311.8
75°	247.9	247.9	244.4	242.6	240.9
77.5°	185.7	186.4	184.7	182.9	179.8
80°	146.6	150.0	148.4	146.6	144.9
82.5°	110.3	113.7	113.5	110.3	110.0
85°	57.6	62.7	62.8	62.8	62.8
87.5°	15.4	20.8	22.3	22.4	23.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.9	57.8	134.1	39.0	29.4
95°	35.4	140.7	632.3	218.9	134.9
97.5°	65.1	164.8	973.8	696.8	477.5
100°	85.9	179.1	1047.9	1061.5	817.6
102.5°	108.7	194.6	1031.6	1358.7	1145.8
105°	144.4	219.1	947.1	1672.9	1590.3
107.5°	180.7	247.6	848.4	1761.5	1835.1
110°	205.8	268.4	791.7	1727.6	1892.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	229.8	289.2	753.6	1647.4	1883.0
115°	268.5	324.4	718.2	1521.4	1786.5
117.5°	302.5	355.0	697.2	1383.6	1664.4
120°	329.8	373.8	695.0	1304.8	1574.0
122.5°	351.6	395.6	689.5	1235.7	1485.7
125°	378.8	420.1	685.5	1137.5	1360.0
127.5°	408.5	447.2	683.3	1078.8	1262.2
130°	423.8	462.5	680.0	1037.9	1197.8
132.5°	440.2	477.7	680.0	1006.0	1153.1
135°	463.3	502.0	677.3	960.8	1086.1
137.5°	485.1	522.7	677.0	922.6	1030.8
140°	501.5	540.1	675.9	890.9	994.8
142.5°	520.0	552.3	679.2	865.5	958.8
145°	546.5	574.4	682.7	831.6	906.2
147.5°	569.1	596.3	688.7	797.3	861.8
150°	588.7	607.4	690.9	786.0	831.3
152.5°	604.0	623.7	693.1	770.6	812.7
155°	624.1	638.8	699.1	751.6	782.2
157.5°	649.2	658.0	700.4	742.9	764.8
160°	662.3	668.9	705.9	736.3	755.0
162.5°	669.9	677.6	707.0	730.8	745.1
165°	689.5	692.2	707.3	722.5	733.1
167.5°	702.9	700.5	713.5	720.4	724.7
170°	707.3	705.9	711.3	712.8	718.2
172.5°	717.1	712.5	714.6	710.6	714.9
175°	722.2	718.3	715.4	711.2	705.9
177.5°	724.4	718.0	714.6	710.3	711.3
180°	716.8	716.8	716.8	716.8	716.8

(END OF REPORT)