

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: P519554

Luminaire Tested: **SQ4-WB-150U-050D-835-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519554
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-150U-050D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

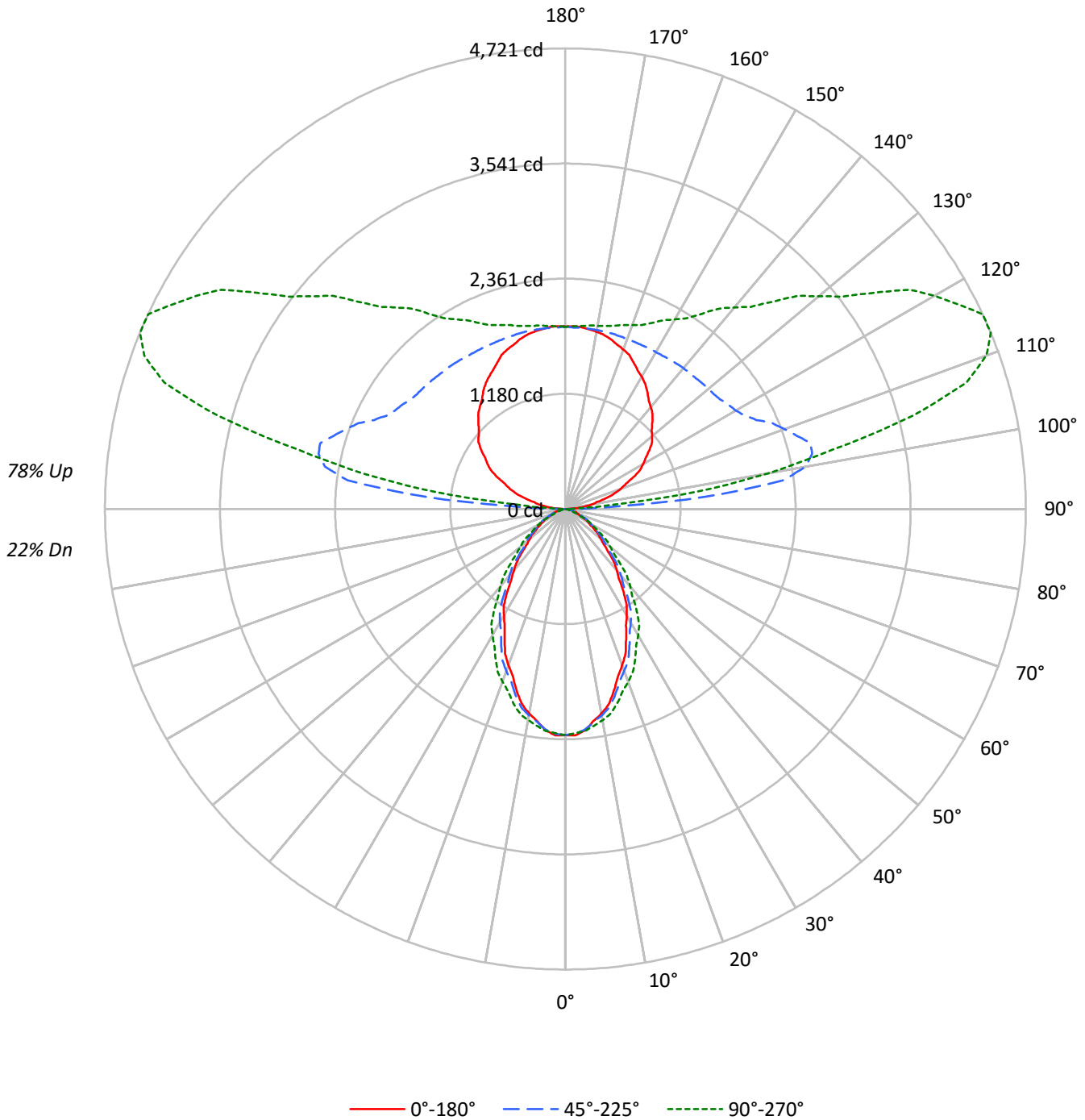
Lumens per Lamp: N/A
Luminaire Lumens: 15428.4 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 111.9
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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30	22
1	92	88	84	81	81	78	75	73	60	58	56	43	42	41	27	27	26	19
2	84	77	72	67	74	69	64	60	53	50	47	38	37	35	25	24	23	17
3	77	68	62	56	68	61	56	51	47	43	40	34	32	30	22	21	20	15
4	71	61	54	48	63	54	48	44	42	38	35	31	28	26	20	19	18	13
5	65	54	47	41	57	49	42	38	38	34	30	28	25	23	19	17	16	12
6	60	49	41	36	53	44	37	33	34	30	26	25	23	20	17	16	14	11
7	55	44	37	32	49	40	33	29	31	27	23	23	20	18	16	14	13	10
8	51	40	33	28	46	36	30	25	28	24	21	21	18	16	15	13	12	9
9	48	36	29	25	42	33	27	23	26	22	19	20	17	15	14	12	11	8
10	45	33	27	22	40	30	24	20	24	20	17	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10689	10689	10689
5°	10556	10519	10580
10°	9973	10064	10297
15°	9207	9420	9843
20°	8361	8675	9249
25°	7499	7908	8617
30°	6705	7144	7961
35°	5864	6287	7186
40°	4935	5327	6221
45°	4073	4425	5194
50°	3400	3707	4327
55°	2887	3181	3573
60°	2467	2758	2852
65°	1965	2320	1843
70°	1741	1810	1125
75°	1613	1469	688
80°	1485	1350	595
85°	1344	1239	487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.5	1.4
10°-20°	552.8	3.6
20°-30°	716.1	4.6
30°-40°	701.2	4.5
40°-50°	536.7	3.5
50°-60°	357.6	2.3
60°-70°	195.2	1.3
70°-80°	81.3	0.5
80°-90°	26.9	0.2
90°-100°	868.4	5.6
100°-110°	2348.1	15.2
110°-120°	2468.6	16.0
120°-130°	2005.2	13.0
130°-140°	1572.9	10.2
140°-150°	1207.2	7.8
150°-160°	868.2	5.6
160°-170°	530.4	3.4
170°-180°	178.8	1.2
0°-30°	1481.5	9.6
0°-40°	2182.7	14.1
0°-60°	3077.1	19.9
0°-90°	3380.5	21.9
90°-120°	5685.1	36.8
90°-150°	10470.5	67.9
90°-180°	12048.0	78.1
0°-180°	15428.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2317	2317	2317	2317	2317	
5°	2280	2257	2272	2277	2285	212
15°	1928	1921	1972	2026	2061	538
25°	1473	1477	1554	1621	1693	678
35°	1041	1046	1116	1192	1276	647
45°	624	636	678	730	796	487
55°	359	374	396	410	444	325
65°	180	195	212	186	169	187
75°	90	90	82	56	39	97
85°	25	25	23	15	9	28
90°	4	12	26	28	26	10
95°	135	473	1444	747	444	141
105°	436	674	2605	3842	3685	460
115°	768	940	2160	4182	4721	759
125°	1052	1205	1947	3286	3860	938
135°	1261	1411	1895	2653	3003	975
145°	1466	1576	1869	2271	2444	917
155°	1655	1720	1853	2037	2104	764
165°	1802	1820	1861	1933	1943	508
175°	1871	1869	1863	1887	1883	178
180°	1869	1869	1869	1869	1869	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2317.2	2317.2	2317.2	2317.2	2317.2
2.5°	2322.9	2302.2	2307.5	2307.3	2300.9
5°	2279.6	2256.7	2271.5	2276.7	2284.7
7.5°	2195.0	2177.7	2204.6	2224.4	2240.5
10°	2129.1	2114.2	2148.4	2177.4	2198.3
12.5°	2052.7	2040.1	2082.5	2121.4	2148.6
15°	1927.8	1920.8	1972.5	2026.2	2061.0
17.5°	1794.2	1790.8	1850.1	1912.7	1957.3
20°	1703.1	1702.1	1767.1	1832.4	1884.1
22.5°	1611.2	1613.4	1681.7	1749.6	1808.4
25°	1473.3	1477.3	1553.6	1621.3	1692.9
27.5°	1345.8	1347.6	1426.5	1498.0	1574.4
30°	1258.8	1263.7	1341.1	1415.1	1494.6
32.5°	1171.7	1177.5	1253.3	1329.7	1410.9
35°	1041.2	1046.1	1116.4	1191.5	1276.0
37.5°	906.6	913.3	975.7	1046.7	1129.8
40°	819.5	829.5	884.6	951.5	1033.0
42.5°	735.7	748.1	799.2	862.7	936.2
45°	624.3	636.2	678.2	729.5	796.1
47.5°	528.3	542.0	574.3	618.5	675.3
50°	473.8	486.7	516.5	549.3	602.9
52.5°	425.8	438.7	465.3	490.5	536.2
55°	358.9	373.8	395.5	410.5	444.3
57.5°	304.0	318.3	335.5	342.3	362.8
60°	267.4	283.3	298.9	298.2	309.1
62.5°	234.1	247.6	263.1	252.4	253.0
65°	180.0	194.9	212.5	185.7	168.8
67.5°	145.4	148.6	166.7	129.5	109.4
70°	129.1	129.1	134.2	100.3	83.4
72.5°	113.7	113.7	109.0	81.5	63.9
75°	90.5	90.5	82.4	56.5	38.6
77.5°	69.8	69.0	63.0	42.2	28.1
80°	55.9	55.9	50.8	33.3	22.4
82.5°	43.7	43.7	39.5	26.0	16.7
85°	25.4	25.4	23.4	15.1	9.2
87.5°	9.8	11.3	13.4	10.5	9.3
90°	4.0	11.9	26.1	28.1	26.1
92.5°	57.1	208.2	410.7	178.3	129.1
95°	134.8	473.1	1444.2	747.4	444.5
97.5°	216.4	542.5	2251.2	1863.0	1368.2
100°	277.6	570.6	2502.3	2609.6	2110.0
102.5°	333.9	609.6	2590.8	3175.7	2802.0
105°	436.5	674.5	2604.9	3842.4	3685.0
107.5°	531.4	748.6	2491.0	4258.3	4310.6
110°	605.5	802.1	2389.6	4369.9	4592.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	671.4	855.5	2296.3	4347.6	4720.9
115°	768.4	939.5	2160.3	4182.0	4720.9
117.5°	863.3	1023.8	2070.6	3929.0	4539.9
120°	921.3	1078.6	2017.5	3747.5	4370.9
122.5°	976.0	1130.2	1985.3	3552.9	4181.0
125°	1052.0	1205.4	1947.1	3285.7	3860.0
127.5°	1122.0	1272.7	1924.6	3067.7	3572.8
130°	1160.6	1316.0	1914.9	2933.0	3389.3
132.5°	1200.8	1354.6	1905.3	2811.5	3231.6
135°	1261.2	1410.7	1894.8	2653.0	3003.1
137.5°	1321.9	1463.2	1886.0	2524.4	2809.6
140°	1363.8	1495.5	1882.7	2441.7	2695.4
142.5°	1404.0	1527.9	1876.3	2366.9	2589.2
145°	1466.4	1576.5	1868.7	2270.9	2443.9
147.5°	1523.1	1620.6	1859.8	2183.9	2316.8
150°	1564.9	1651.5	1856.6	2136.6	2242.8
152.5°	1603.5	1679.1	1855.0	2092.7	2180.0
155°	1655.4	1720.3	1852.6	2037.1	2104.0
157.5°	1709.3	1754.6	1853.0	1998.4	2042.4
160°	1739.9	1777.3	1854.6	1974.0	2005.4
162.5°	1764.1	1795.1	1856.2	1954.5	1978.1
165°	1802.3	1820.0	1860.6	1933.2	1943.1
167.5°	1828.4	1840.6	1861.0	1915.0	1919.7
170°	1844.5	1850.4	1862.6	1906.9	1906.9
172.5°	1857.4	1858.6	1862.6	1897.2	1895.6
175°	1870.7	1868.7	1862.6	1886.7	1882.7
177.5°	1875.1	1870.4	1862.2	1878.2	1873.5
180°	1868.7	1868.7	1868.7	1868.7	1868.7

(END OF REPORT)