

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: P519578

Luminaire Tested: **SQ4-WB-150U-075D-835-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519578
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-075D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

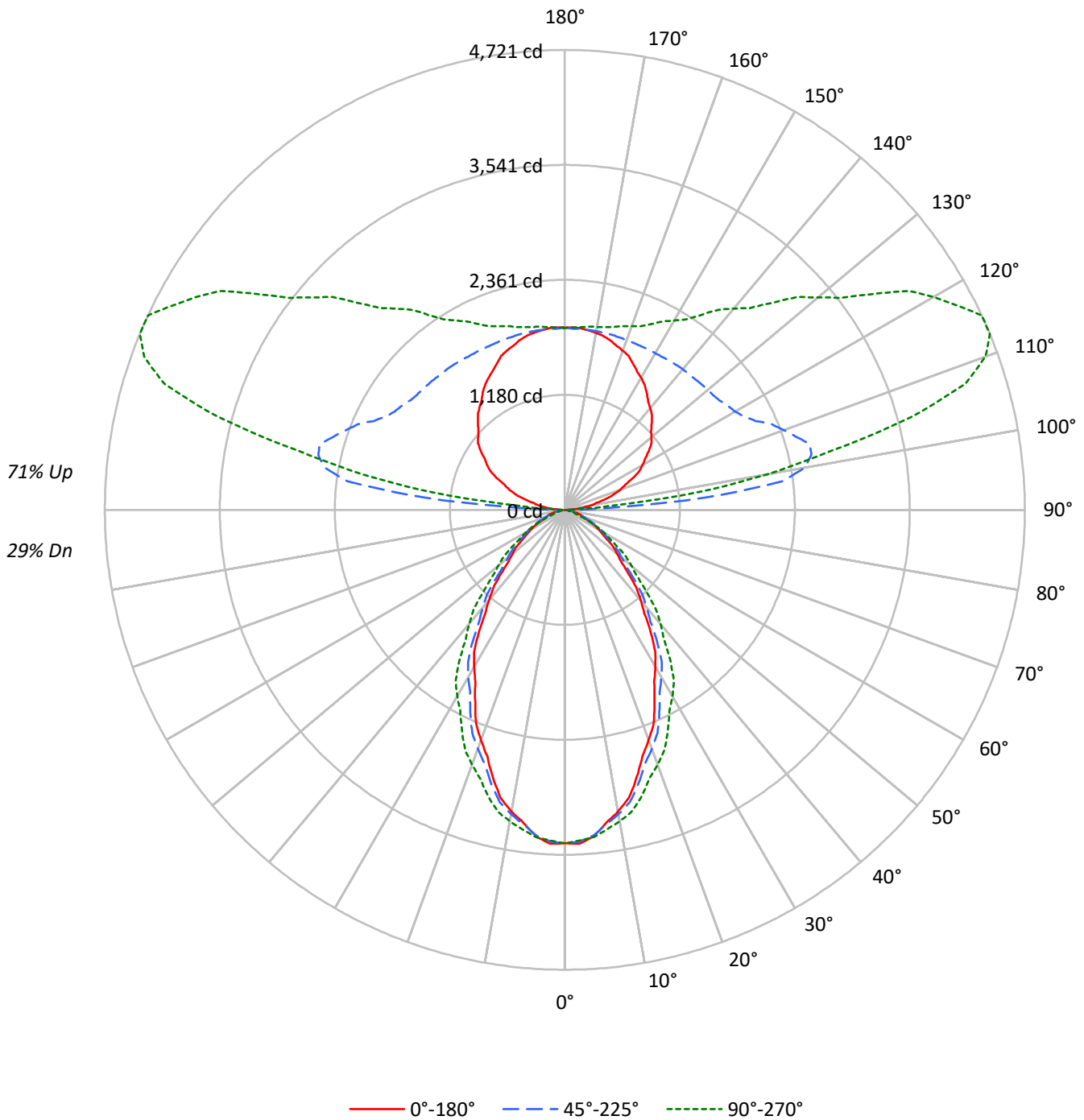
Lumens per Lamp: N/A
Luminaire Lumens: 17038.6 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 131.1
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



TEST NUMBER: P519578
CATALOG NUMBER: SQ4-WB-150U-075D-835-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P519578

CATALOG NUMBER: SQ4-WB-150U-075D-835-1D-UNV-STD-W-8

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33	26
2	86	79	74	69	77	71	67	63	57	54	51	43	41	39	31	29	28	23
3	79	70	64	58	71	63	58	53	51	47	44	39	36	34	28	26	25	20
4	72	63	55	50	65	57	50	46	45	41	38	35	32	30	25	24	22	18
5	67	56	49	43	60	51	44	40	41	36	33	32	29	26	23	21	20	16
6	62	50	43	38	55	46	39	35	37	32	29	29	26	23	21	19	18	15
7	57	46	38	33	51	42	35	31	34	29	26	26	23	21	20	18	16	13
8	53	41	34	29	48	38	32	27	31	26	23	24	21	19	18	16	15	12
9	49	38	31	26	44	35	29	24	28	24	21	22	19	17	17	15	13	11
10	46	35	28	24	42	32	26	22	26	22	19	21	18	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15787	15787	15787
5°	15590	15535	15625
10°	14729	14863	15207
15°	13597	13913	14537
20°	12348	12812	13660
25°	11075	11679	12726
30°	9902	10551	11758
35°	8660	9285	10613
40°	7288	7867	9188
45°	6015	6534	7671
50°	5022	5474	6391
55°	4263	4698	5278
60°	3643	4073	4212
65°	2901	3425	2721
70°	2572	2673	1660
75°	2381	2167	1018
80°	2194	1995	877
85°	1985	1826	715



TEST NUMBER: P519578

CATALOG NUMBER: SQ4-WB-150U-075D-835-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.9	1.8
10°-20°	816.5	4.8
20°-30°	1057.6	6.2
30°-40°	1035.6	6.1
40°-50°	792.7	4.7
50°-60°	528.2	3.1
60°-70°	288.2	1.7
70°-80°	120.1	0.7
80°-90°	37.9	0.2
90°-100°	868.4	5.1
100°-110°	2348.1	13.8
110°-120°	2468.6	14.5
120°-130°	2005.2	11.8
130°-140°	1572.9	9.2
140°-150°	1207.2	7.1
150°-160°	868.2	5.1
160°-170°	530.4	3.1
170°-180°	178.8	1.0
0°-30°	2187.9	12.8
0°-40°	3223.5	18.9
0°-60°	4544.5	26.7
0°-90°	4990.7	29.3
90°-120°	5685.1	33.4
90°-150°	10470.5	61.5
90°-180°	12048.0	70.7
0°-180°	17038.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3422	3422	3422	3422	3422	
5°	3367	3333	3355	3362	3374	313
15°	2847	2837	2913	2992	3044	795
25°	2176	2182	2294	2394	2500	1001
35°	1538	1545	1649	1760	1885	956
45°	922	940	1002	1077	1176	719
55°	530	552	584	606	656	481
65°	266	288	314	274	249	276
75°	134	134	122	84	57	143
85°	38	38	34	22	14	41
90°	4	12	26	28	26	11
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	

TEST NUMBER: P519578

CATALOG NUMBER: SQ4-WB-150U-075D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3422.2	3422.2	3422.2	3422.2	3422.2
2.5°	3430.6	3400.1	3407.8	3407.6	3398.2
5°	3366.7	3332.9	3354.7	3362.4	3374.2
7.5°	3241.7	3216.2	3255.8	3285.2	3309.0
10°	3144.4	3122.4	3173.0	3215.7	3246.5
12.5°	3031.5	3013.0	3075.7	3133.0	3173.3
15°	2847.1	2836.8	2913.2	2992.4	3043.8
17.5°	2649.8	2644.8	2732.4	2824.9	2890.7
20°	2515.2	2513.8	2609.8	2706.2	2782.5
22.5°	2379.5	2382.7	2483.7	2583.9	2670.8
25°	2175.9	2181.7	2294.5	2394.5	2500.2
27.5°	1987.6	1990.2	2106.8	2212.4	2325.1
30°	1859.0	1866.4	1980.7	2089.9	2207.4
32.5°	1730.5	1739.0	1850.9	1963.9	2083.7
35°	1537.7	1545.0	1648.8	1759.8	1884.6
37.5°	1338.9	1348.8	1441.0	1545.9	1668.6
40°	1210.3	1225.0	1306.4	1405.3	1525.7
42.5°	1086.6	1104.8	1180.3	1274.1	1382.7
45°	922.0	939.6	1001.6	1077.4	1175.8
47.5°	780.3	800.5	848.1	913.4	997.4
50°	699.8	718.9	762.8	811.2	890.5
52.5°	628.9	648.0	687.1	724.4	792.0
55°	530.1	552.1	584.1	606.3	656.2
57.5°	449.0	470.1	495.5	505.5	535.8
60°	394.9	418.4	441.5	440.3	456.5
62.5°	345.7	365.6	388.6	372.7	373.6
65°	265.8	287.8	313.8	274.2	249.3
67.5°	214.7	219.4	246.3	191.2	161.6
70°	190.7	190.7	198.2	148.1	123.1
72.5°	167.9	167.9	161.0	120.4	94.3
75°	133.6	133.6	121.6	83.5	57.1
77.5°	103.0	101.8	93.1	62.3	41.4
80°	82.6	82.6	75.1	49.2	33.0
82.5°	64.6	64.6	58.3	38.4	24.6
85°	37.5	37.5	34.5	22.3	13.5
87.5°	14.0	15.6	17.2	12.8	11.2
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



TEST NUMBER: P519578

CATALOG NUMBER: SQ4-WB-150U-075D-835-1D-UNV-STD-W-8

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)