

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: P563808

Luminaire Tested: **SQ4-PP3-150U-100D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563808
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-100D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

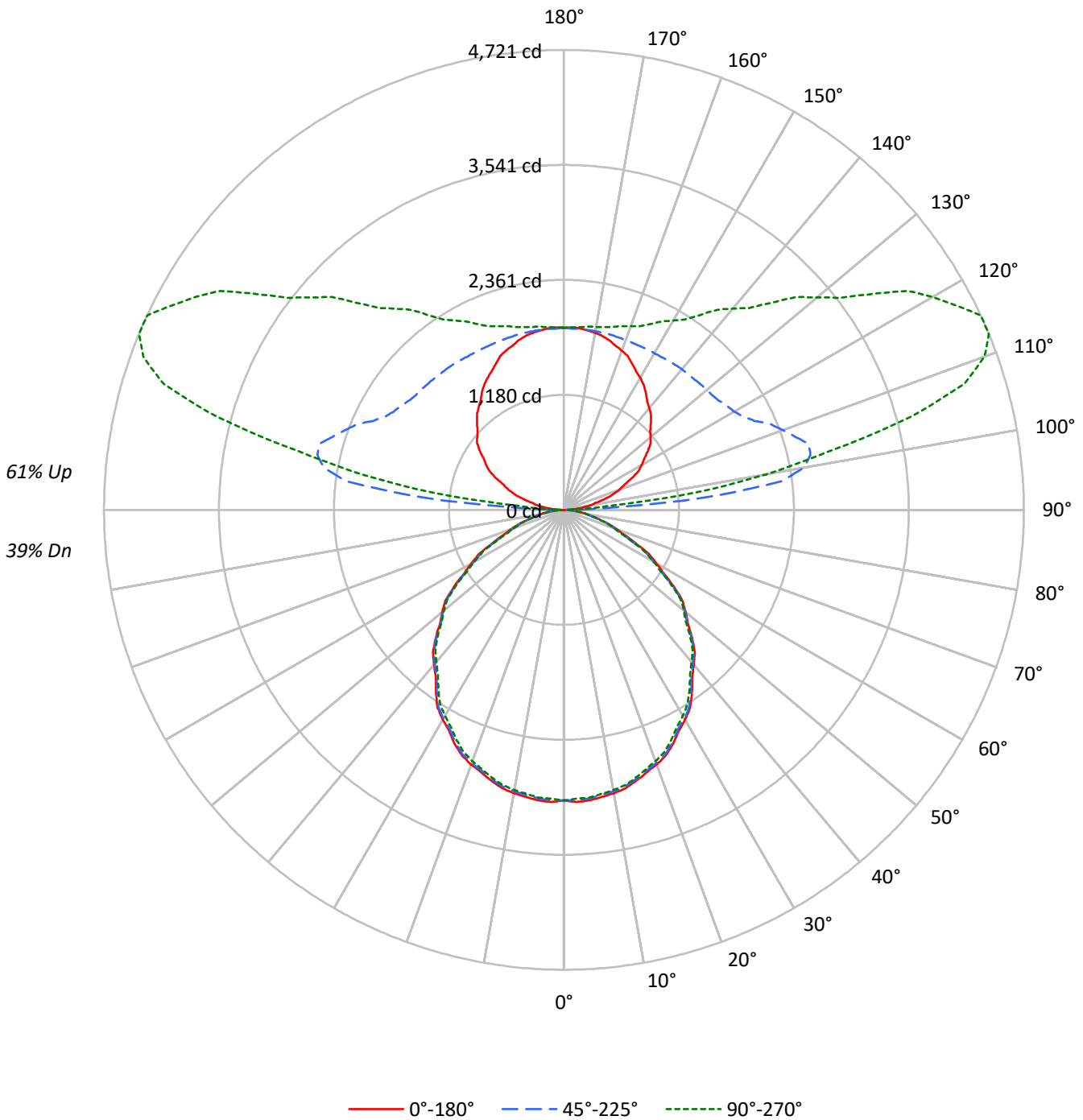
Lumens per Lamp: N/A
Luminaire Lumens: 19686.8 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 148.4
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				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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	60	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	73	62	54	49	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	61	50	42	36	56	45	38	33	38	32	28	30	26	24	23	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13761	13761	13761
5°	13862	13777	13729
10°	13839	13741	13679
15°	13747	13672	13597
20°	13656	13579	13477
25°	13494	13400	13268
30°	13244	13175	13007
35°	12897	12810	12647
40°	12485	12406	12264
45°	12144	12059	11939
50°	11708	11633	11521
55°	11102	10955	10871
60°	10106	9818	9769
65°	8904	8533	8504
70°	7687	7370	7370
75°	6616	6523	6431
80°	5834	5903	5765
85°	4568	4981	4981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.1	1.4
10°-20°	805.4	4.1
20°-30°	1206.4	6.1
30°-40°	1415.1	7.2
40°-50°	1419.5	7.2
50°-60°	1210.9	6.2
60°-70°	789.7	4.0
70°-80°	396.2	2.0
80°-90°	113.5	0.6
90°-100°	868.4	4.4
100°-110°	2348.1	11.9
110°-120°	2468.6	12.5
120°-130°	2005.2	10.2
130°-140°	1572.9	8.0
140°-150°	1207.2	6.1
150°-160°	868.2	4.4
160°-170°	530.4	2.7
170°-180°	178.8	0.9
0°-30°	2293.9	11.7
0°-40°	3709.0	18.8
0°-60°	6339.4	32.2
0°-90°	7638.9	38.8
90°-120°	5685.1	28.9
90°-150°	10470.5	53.2
90°-180°	12048.0	61.2
0°-180°	19686.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2983	2983	2983	2983	2983	
5°	2994	2965	2975	2965	2965	284
15°	2878	2850	2863	2852	2847	812
25°	2651	2620	2633	2609	2607	1219
35°	2290	2267	2275	2248	2246	1431
45°	1862	1849	1848	1830	1830	1433
55°	1380	1375	1362	1354	1352	1227
65°	816	800	782	776	779	814
75°	371	371	366	363	361	403
85°	86	94	94	94	94	101
90°	4	12	26	28	26	12
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°	2983.1	2983.1	2983.1	2983.1	2983.1
2.5°	3001.9	2977.4	2983.1	2978.6	2966.3
5°	2993.5	2965.4	2975.2	2964.8	2964.8
7.5°	2973.1	2942.5	2952.2	2941.7	2941.2
10°	2954.3	2923.6	2933.4	2922.9	2920.3
12.5°	2927.1	2896.4	2908.3	2895.7	2895.2
15°	2878.5	2850.4	2862.8	2852.2	2847.1
17.5°	2823.6	2792.9	2807.9	2793.2	2791.2
20°	2781.8	2751.1	2766.1	2745.2	2745.2
22.5°	2731.6	2700.9	2718.0	2690.8	2690.8
25°	2651.0	2620.4	2632.7	2609.1	2606.6
27.5°	2555.3	2525.2	2538.1	2511.4	2510.9
30°	2486.3	2458.2	2473.3	2444.4	2441.9
32.5°	2411.0	2385.0	2395.9	2367.0	2364.5
35°	2290.2	2267.2	2274.6	2248.4	2245.8
37.5°	2163.2	2139.7	2148.0	2125.5	2124.5
40°	2073.2	2057.9	2060.2	2041.8	2036.6
42.5°	1989.6	1972.2	1974.4	1956.1	1955.1
45°	1861.5	1848.7	1848.4	1830.1	1830.1
47.5°	1725.5	1715.8	1713.0	1697.8	1697.3
50°	1631.4	1623.7	1620.9	1607.8	1605.3
52.5°	1533.1	1529.5	1520.6	1509.6	1509.1
55°	1380.4	1375.3	1362.1	1354.2	1351.7
57.5°	1214.7	1204.4	1189.6	1178.1	1180.2
60°	1095.4	1085.2	1064.1	1058.8	1058.8
62.5°	980.4	968.1	946.9	939.7	943.8
65°	815.7	800.4	781.7	776.5	779.1
67.5°	666.2	652.4	632.2	632.1	630.1
70°	569.9	562.3	546.4	546.4	546.4
72.5°	484.2	480.6	469.0	469.0	466.9
75°	371.2	371.2	366.0	363.3	360.8
77.5°	278.2	279.2	276.6	273.9	269.3
80°	219.6	224.7	222.2	219.6	217.0
82.5°	165.2	170.3	169.9	165.2	164.7
85°	86.3	93.9	94.1	94.1	94.1
87.5°	23.8	33.6	38.7	39.1	40.8
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)