

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: P563172

Luminaire Tested: **SQ4-PC3-150U-125D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563172
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-150U-125D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

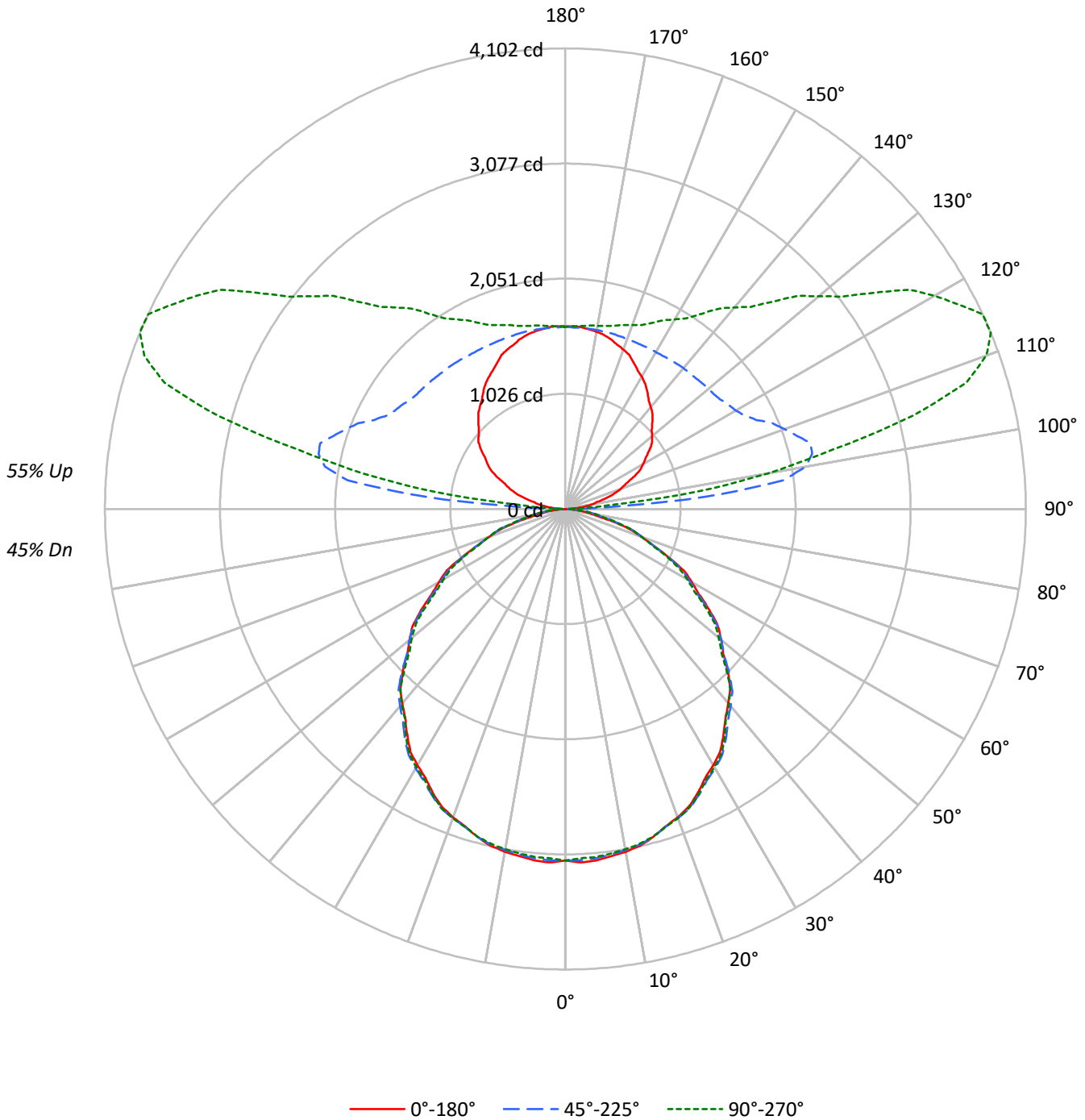
Lumens per Lamp: N/A
Luminaire Lumens: 19018.5 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 167.8
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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	51	51	51	45
1	97	92	89	85	88	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	80	74	69	65	62	58	55	51	48	46	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	36	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14446	14446	14446
5°	14555	14461	14408
10°	14520	14452	14411
15°	14444	14444	14430
20°	14348	14391	14391
25°	14213	14316	14272
30°	14040	14210	14148
35°	13831	14043	13945
40°	13602	13795	13655
45°	13355	13450	13242
50°	13006	13006	12798
55°	12593	12430	12243
60°	11985	11744	11557
65°	11078	10857	10762
70°	9699	9777	9738
75°	7803	8630	8682
80°	5547	7319	7396
85°	3377	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.4	1.6
10°-20°	850.5	4.5
20°-30°	1288.0	6.8
30°-40°	1544.1	8.1
40°-50°	1574.5	8.3
50°-60°	1374.4	7.2
60°-70°	984.0	5.2
70°-80°	506.8	2.7
80°-90°	131.5	0.7
90°-100°	754.6	4.0
100°-110°	2040.2	10.7
110°-120°	2145.0	11.3
120°-130°	1742.3	9.2
130°-140°	1366.7	7.2
140°-150°	1049.0	5.5
150°-160°	754.4	4.0
160°-170°	460.8	2.4
170°-180°	155.4	0.8
0°-30°	2434.8	12.8
0°-40°	3979.0	20.9
0°-60°	6927.8	36.4
0°-90°	8550.1	45.0
90°-120°	4939.8	26.0
90°-150°	9097.7	47.8
90°-180°	10468.0	55.0
0°-180°	19018.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3132	3132	3132	3132	3132	
5°	3143	3112	3123	3114	3111	298
15°	3024	2999	3024	3024	3021	853
25°	2792	2772	2813	2804	2804	1285
35°	2456	2450	2494	2476	2476	1536
45°	2047	2042	2062	2035	2030	1576
55°	1566	1546	1546	1522	1522	1396
65°	1015	992	995	986	986	1004
75°	438	458	484	487	487	473
85°	64	98	116	119	116	87
90°	4	10	23	24	23	10
95°	117	411	1255	649	386	123
105°	379	586	2263	3339	3202	399
115°	668	816	1877	3634	4102	659
125°	914	1047	1692	2855	3354	815
135°	1096	1226	1646	2305	2609	847
145°	1274	1370	1624	1973	2124	797
155°	1438	1495	1610	1770	1828	663
165°	1566	1581	1617	1680	1688	441
175°	1625	1624	1618	1639	1636	154
180°	1624	1624	1624	1624	1624	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3131.6	3131.6	3131.6	3131.6	<i>3131.6</i>
2.5°	3150.2	3122.9	3131.6	3124.4	<i>3113.0</i>
5°	3143.2	3112.0	3122.9	3114.1	<i>3111.3</i>
7.5°	3120.6	3089.4	3103.8	3097.9	<i>3095.1</i>
10°	3099.7	3068.5	3085.2	3079.3	<i>3076.5</i>
12.5°	3071.9	3043.0	3062.0	3056.2	<i>3055.6</i>
15°	3024.3	2998.8	3024.3	3024.3	<i>3021.4</i>
17.5°	2964.6	2941.3	2968.6	2970.3	<i>2968.6</i>
20°	2922.8	2897.3	2931.5	2928.7	<i>2931.5</i>
22.5°	2871.8	2850.8	2887.5	2880.0	<i>2882.8</i>
25°	2792.3	2772.5	2812.6	2803.9	<i>2803.9</i>
27.5°	2698.4	2684.2	2728.0	2718.7	<i>2718.7</i>
30°	2635.8	2621.6	2667.7	2656.1	<i>2656.1</i>
32.5°	2566.2	2556.5	2600.4	2586.5	<i>2586.5</i>
35°	2456.0	2450.3	2493.7	2476.3	<i>2476.3</i>
37.5°	2342.3	2337.2	2376.5	2355.5	<i>2348.7</i>
40°	2258.8	2256.0	2290.7	2267.5	<i>2267.5</i>
42.5°	2175.3	2172.5	2202.6	2174.7	<i>2174.7</i>
45°	2047.1	2041.5	2061.6	2035.4	<i>2029.7</i>
47.5°	1907.4	1901.7	1914.3	1885.9	<i>1883.0</i>
50°	1812.3	1806.6	1812.3	1786.1	<i>1783.3</i>
52.5°	1714.8	1704.6	1705.6	1679.5	<i>1678.9</i>
55°	1565.8	1546.0	1545.5	1522.3	<i>1522.3</i>
57.5°	1408.1	1382.0	1384.3	1364.5	<i>1361.7</i>
60°	1299.0	1270.7	1272.9	1255.5	<i>1252.6</i>
62.5°	1192.3	1159.4	1166.2	1146.5	<i>1145.9</i>
65°	1014.9	992.2	994.6	985.9	<i>985.9</i>
67.5°	844.4	823.4	838.6	831.6	<i>831.0</i>
70°	719.1	704.9	724.9	724.8	<i>722.0</i>
72.5°	603.1	602.6	627.5	627.5	<i>629.2</i>
75°	437.8	457.7	484.2	487.1	<i>487.1</i>
77.5°	292.3	327.4	356.7	357.8	<i>357.2</i>
80°	208.8	248.5	275.5	281.2	<i>278.4</i>
82.5°	141.5	183.5	205.9	211.6	<i>208.8</i>
85°	63.8	97.8	116.0	118.8	<i>116.0</i>
87.5°	19.3	41.0	50.9	51.2	<i>46.3</i>
90°	3.5	10.3	22.7	24.4	<i>22.7</i>
92.5°	49.6	180.9	356.9	154.9	<i>112.2</i>
95°	117.1	411.0	1254.9	649.4	<i>386.3</i>
97.5°	188.1	471.4	1956.1	1618.8	<i>1188.8</i>
100°	241.2	495.8	2174.2	2267.5	<i>1833.4</i>
102.5°	290.1	529.7	2251.1	2759.3	<i>2434.6</i>
105°	379.3	586.0	2263.3	3338.6	<i>3201.9</i>
107.5°	461.8	650.4	2164.4	3700.0	<i>3745.4</i>
110°	526.1	697.0	2076.3	3797.0	<i>3990.1</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	583.4	743.4	1995.2	3777.6	4102.0
115°	667.6	816.3	1877.1	3633.7	4102.0
117.5°	750.1	889.6	1799.1	3413.9	3944.7
120°	800.5	937.2	1753.0	3256.1	3797.9
122.5°	848.0	982.0	1725.0	3087.0	3632.9
125°	914.1	1047.4	1691.8	2854.9	3353.9
127.5°	974.9	1105.8	1672.2	2665.5	3104.4
130°	1008.5	1143.5	1663.9	2548.5	2945.0
132.5°	1043.4	1177.0	1655.5	2442.9	2807.9
135°	1095.8	1225.7	1646.4	2305.2	2609.4
137.5°	1148.6	1271.3	1638.7	2193.5	2441.3
140°	1185.0	1299.5	1635.9	2121.5	2342.0
142.5°	1219.9	1327.6	1630.3	2056.6	2249.7
145°	1274.1	1369.8	1623.7	1973.1	2123.5
147.5°	1323.4	1408.2	1616.0	1897.5	2013.1
150°	1359.7	1434.9	1613.2	1856.5	1948.7
152.5°	1393.3	1458.9	1611.8	1818.3	1894.2
155°	1438.4	1494.8	1609.7	1770.0	1828.1
157.5°	1485.2	1524.5	1610.0	1736.4	1774.7
160°	1511.8	1544.3	1611.4	1715.2	1742.5
162.5°	1532.8	1559.8	1612.8	1698.2	1718.7
165°	1566.0	1581.4	1616.7	1679.8	1688.3
167.5°	1588.7	1599.3	1617.0	1664.0	1668.1
170°	1602.7	1607.8	1618.4	1656.9	1656.9
172.5°	1613.9	1614.9	1618.4	1648.4	1647.1
175°	1625.4	1623.7	1618.4	1639.3	1635.9
177.5°	1629.3	1625.2	1618.1	1632.0	1627.9
180°	1623.7	1623.7	1623.7	1623.7	1623.7

(END OF REPORT)