

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: P562989

Luminaire Tested: **SQ4-PC3-125U-050D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562989
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PC3-125U-050D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

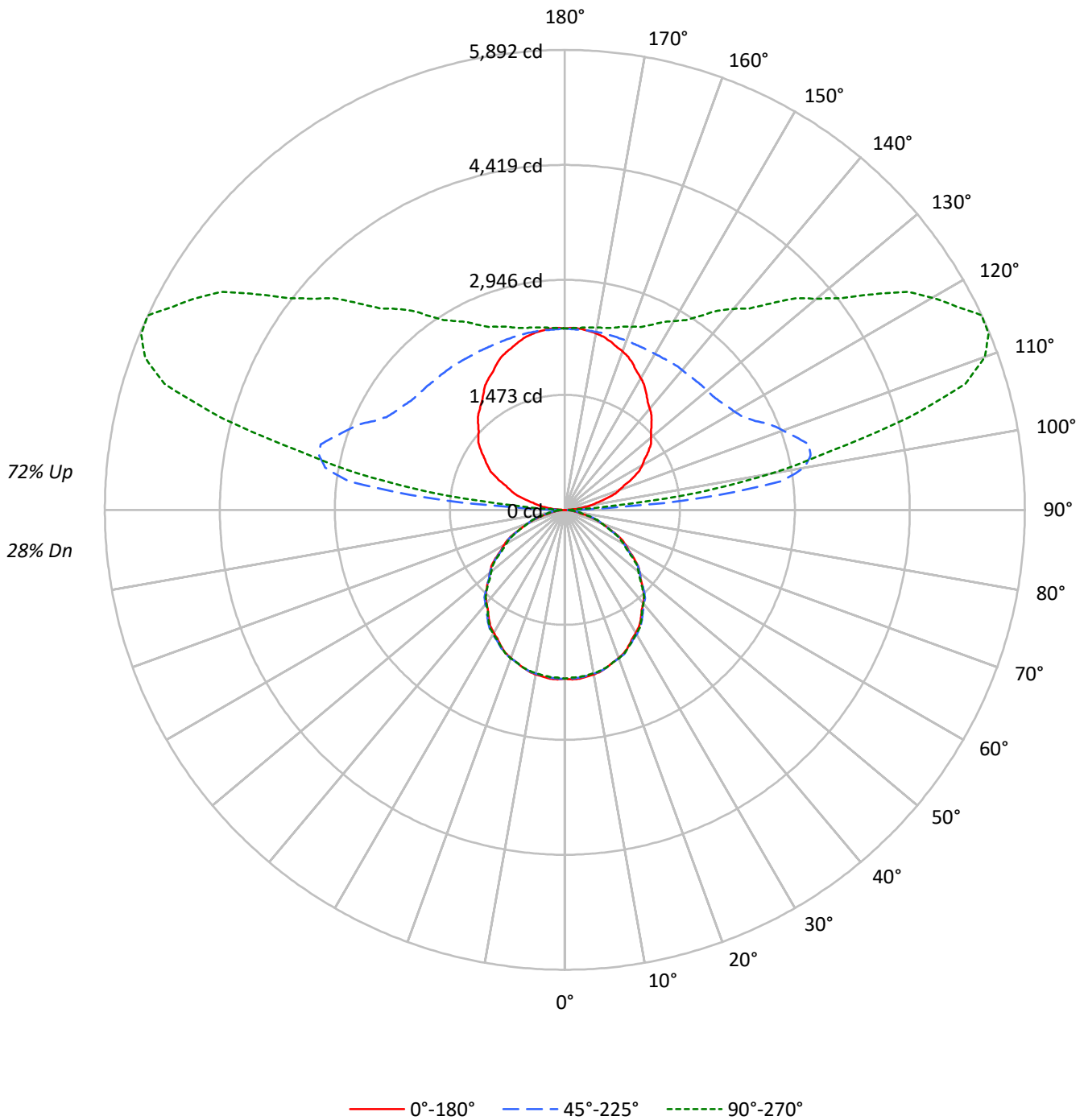
Lumens per Lamp: N/A
Luminaire Lumens: 20907.4 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 146.4
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	76	74	62	60	58	47	45	44	32	31	31	24
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6653	6653	6653
5°	6703	6660	6635
10°	6687	6655	6637
15°	6651	6651	6645
20°	6608	6627	6627
25°	6545	6593	6573
30°	6466	6544	6515
35°	6369	6467	6422
40°	6264	6353	6288
45°	6150	6194	6098
50°	5990	5990	5894
55°	5799	5724	5638
60°	5519	5408	5322
65°	5101	4999	4956
70°	4466	4502	4484
75°	3594	3975	3998
80°	2554	3370	3406
85°	1556	2826	2826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	1.0
10°-20°	587.5	2.8
20°-30°	889.7	4.3
30°-40°	1066.6	5.1
40°-50°	1087.6	5.2
50°-60°	949.4	4.5
60°-70°	679.7	3.3
70°-80°	350.1	1.7
80°-90°	94.0	0.4
90°-100°	1086.8	5.2
100°-110°	2927.6	14.0
110°-120°	3072.5	14.7
120°-130°	2493.2	11.9
130°-140°	1955.4	9.4
140°-150°	1501.2	7.2
150°-160°	1079.4	5.2
160°-170°	659.4	3.2
170°-180°	222.4	1.1
0°-30°	1681.9	8.0
0°-40°	2748.6	13.1
0°-60°	4785.6	22.9
0°-90°	5909.4	28.3
90°-120°	7086.9	33.9
90°-150°	13036.8	62.4
90°-180°	14998.0	71.7
0°-180°	20907.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2163	2163	2163	2163	2163	
5°	2171	2150	2157	2151	2149	206
15°	2089	2072	2089	2089	2087	589
25°	1929	1915	1943	1937	1937	888
35°	1696	1693	1723	1711	1711	1061
45°	1414	1410	1424	1406	1402	1089
55°	1082	1068	1068	1052	1052	964
65°	701	685	687	681	681	693
75°	302	316	334	336	336	327
85°	44	68	80	82	80	60
90°	6	18	36	38	38	13
95°	166	591	1782	911	630	173
105°	542	843	3238	4844	4546	569
115°	956	1170	2696	5210	5892	941
125°	1305	1499	2421	4092	4815	1165
135°	1572	1754	2353	3301	3738	1213
145°	1817	1959	2323	2822	3031	1140
155°	2063	2138	2302	2532	2613	950
165°	2237	2264	2311	2403	2415	631
175°	2326	2323	2314	2347	2341	221
180°	2323	2323	2323	2323	2323	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2163.2	2163.2	2163.2	2163.2	2163.2
2.5°	2176.1	2157.3	2163.2	2158.3	2150.4
5°	2171.2	2149.7	2157.2	2151.2	2149.2
7.5°	2155.6	2134.1	2144.0	2140.0	2138.0
10°	2141.2	2119.7	2131.2	2127.1	2125.2
12.5°	2122.0	2102.0	2115.2	2111.2	2110.8
15°	2089.1	2071.5	2089.1	2089.1	2087.1
17.5°	2047.9	2031.8	2050.7	2051.8	2050.7
20°	2019.0	2001.4	2025.0	2023.1	2025.0
22.5°	1983.8	1969.3	1994.6	1989.4	1991.4
25°	1928.9	1915.2	1942.9	1936.9	1936.9
27.5°	1864.0	1854.2	1884.4	1878.0	1878.0
30°	1820.7	1810.9	1842.8	1834.7	1834.7
32.5°	1772.7	1766.0	1796.3	1786.7	1786.7
35°	1696.5	1692.6	1722.6	1710.6	1710.6
37.5°	1618.0	1614.5	1641.7	1627.1	1622.4
40°	1560.3	1558.4	1582.4	1566.3	1566.3
42.5°	1502.6	1500.7	1521.5	1502.2	1502.2
45°	1414.1	1410.2	1424.1	1406.0	1402.1
47.5°	1317.6	1313.7	1322.4	1302.7	1300.7
50°	1251.9	1248.0	1251.9	1233.8	1231.8
52.5°	1184.6	1177.5	1178.2	1160.1	1159.7
55°	1081.6	1067.9	1067.6	1051.6	1051.6
57.5°	972.7	954.6	956.2	942.6	940.6
60°	897.3	877.8	879.3	867.3	865.3
62.5°	823.6	800.9	805.6	792.0	791.6
65°	701.0	685.4	687.0	681.0	681.0
67.5°	583.3	568.8	579.3	574.5	574.1
70°	496.7	487.0	500.7	500.7	498.7
72.5°	416.6	416.2	433.4	433.5	434.7
75°	302.5	316.2	334.5	336.5	336.5
77.5°	201.9	226.2	246.4	247.2	246.8
80°	144.2	171.6	190.3	194.2	192.3
82.5°	97.7	126.7	142.2	146.2	144.2
85°	44.1	67.6	80.1	82.1	80.1
87.5°	14.0	30.4	39.2	39.7	36.5
90°	5.9	17.5	35.5	38.5	38.5
92.5°	72.2	255.1	504.3	242.8	168.7
95°	165.7	591.1	1781.7	911.1	630.4
97.5°	264.6	676.7	2794.4	2334.5	1760.3
100°	340.3	710.8	3116.4	3260.6	2705.0
102.5°	413.7	758.7	3223.0	3954.3	3498.2
105°	541.6	842.6	3237.8	4843.9	4545.9
107.5°	662.3	930.9	3099.8	5301.1	5378.1
110°	742.8	997.5	2974.4	5443.1	5723.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	828.1	1064.2	2853.6	5411.7	5873.0
115°	955.9	1170.1	2696.2	5209.5	5892.5
117.5°	1072.5	1273.4	2574.2	4886.9	5647.4
120°	1148.3	1342.2	2512.7	4655.4	5436.7
122.5°	1214.6	1406.2	2467.7	4418.6	5197.6
125°	1305.2	1499.1	2420.9	4091.8	4815.2
127.5°	1392.2	1583.2	2391.3	3803.5	4449.4
130°	1444.3	1635.3	2379.5	3638.4	4205.5
132.5°	1496.4	1685.0	2367.6	3492.9	4013.8
135°	1571.5	1753.8	2352.9	3301.0	3737.9
137.5°	1643.1	1817.9	2345.2	3138.2	3497.0
140°	1692.9	1860.7	2338.1	3038.0	3362.1
142.5°	1745.0	1901.2	2333.3	2944.5	3217.6
145°	1817.2	1959.0	2323.3	2822.2	3030.6
147.5°	1895.3	2018.6	2313.2	2719.4	2883.2
150°	1947.4	2054.5	2308.5	2654.9	2790.9
152.5°	1994.7	2087.9	2306.1	2602.2	2712.7
155°	2062.8	2138.1	2302.5	2532.3	2613.3
157.5°	2122.6	2181.1	2303.1	2483.1	2537.5
160°	2160.5	2209.7	2305.5	2454.4	2494.9
162.5°	2193.6	2233.6	2307.9	2430.5	2459.4
165°	2237.4	2263.5	2311.4	2403.4	2415.0
167.5°	2272.9	2288.0	2314.4	2382.6	2387.2
170°	2296.6	2302.4	2314.4	2370.6	2370.6
172.5°	2310.8	2312.0	2316.7	2358.8	2358.8
175°	2326.2	2323.3	2314.4	2346.8	2341.0
177.5°	2332.7	2328.1	2316.2	2335.0	2330.4
180°	2323.3	2323.3	2323.3	2323.3	2323.3

(END OF REPORT)