

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: P563025

Luminaire Tested: **SQ4-PC3-125U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563025
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-075D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

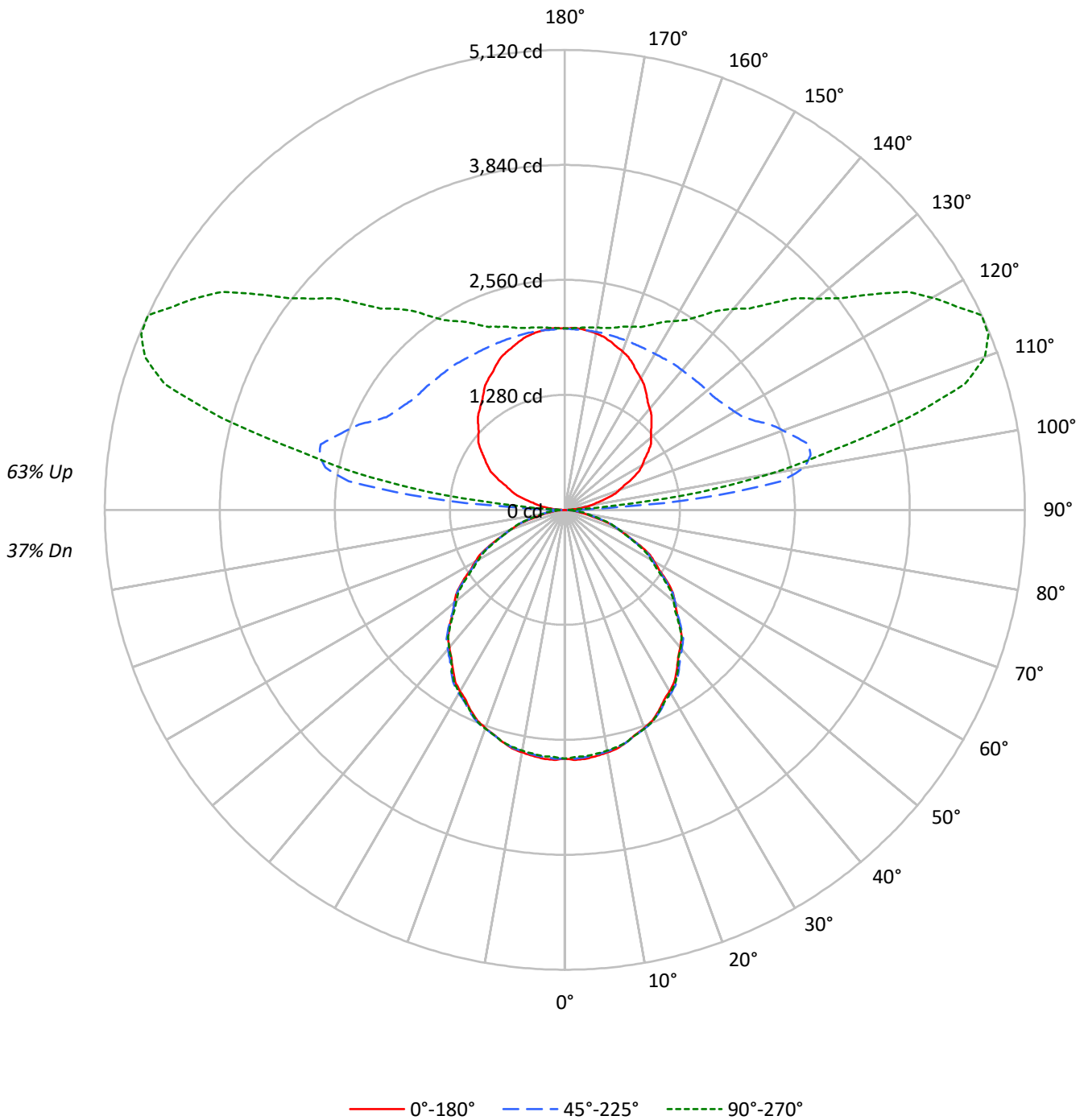
Lumens per Lamp: N/A
Luminaire Lumens: 20597.1 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 172.4
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	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31	26
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	59	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17	14
7	56	44	36	31	51	40	33	28	33	28	24	26	23	20	20	17	15	13
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8520	8520	8520
5°	8584	8529	8497
10°	8563	8523	8499
15°	8518	8518	8510
20°	8462	8487	8487
25°	8382	8443	8417
30°	8280	8380	8344
35°	8157	8282	8224
40°	8022	8136	8053
45°	7877	7932	7810
50°	7670	7670	7548
55°	7427	7331	7221
60°	7069	6926	6816
65°	6533	6402	6346
70°	5721	5766	5743
75°	4602	5090	5120
80°	3271	4316	4362
85°	1990	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.2	1.3
10°-20°	752.4	3.7
20°-30°	1139.4	5.5
30°-40°	1366.0	6.6
40°-50°	1392.8	6.8
50°-60°	1215.9	5.9
60°-70°	870.4	4.2
70°-80°	448.3	2.2
80°-90°	118.1	0.6
90°-100°	944.3	4.6
100°-110°	2543.8	12.4
110°-120°	2669.6	13.0
120°-130°	2166.3	10.5
130°-140°	1699.0	8.2
140°-150°	1304.4	6.3
150°-160°	937.9	4.6
160°-170°	573.0	2.8
170°-180°	193.2	0.9
0°-30°	2154.0	10.5
0°-40°	3520.0	17.1
0°-60°	6128.7	29.8
0°-90°	7565.5	36.7
90°-120°	6157.8	29.9
90°-150°	11327.5	55.0
90°-180°	13032.0	63.3
0°-180°	20597.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2770	2770	2770	2770	2770	
5°	2781	2753	2763	2755	2752	264
15°	2675	2653	2675	2675	2673	754
25°	2470	2453	2488	2480	2480	1137
35°	2173	2168	2206	2191	2191	1359
45°	1811	1806	1824	1801	1796	1394
55°	1385	1368	1367	1347	1347	1235
65°	898	878	880	872	872	888
75°	387	405	428	431	431	419
85°	56	86	103	105	103	77
90°	5	15	31	33	33	12
95°	144	514	1548	792	548	150
105°	471	732	2813	4209	3950	495
115°	831	1017	2343	4526	5120	817
125°	1134	1302	2104	3555	4184	1013
135°	1366	1524	2044	2868	3248	1054
145°	1579	1702	2019	2452	2633	990
155°	1792	1858	2001	2200	2271	825
165°	1944	1967	2008	2088	2098	548
175°	2021	2019	2011	2039	2034	192
180°	2019	2019	2019	2019	2019	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2770.3	2770.3	2770.3	2770.3	2770.3
2.5°	2786.8	2762.7	2770.3	2764.0	2753.9
5°	2780.6	2753.0	2762.6	2754.9	2752.4
7.5°	2760.6	2733.0	2745.7	2740.5	2738.0
10°	2742.1	2714.5	2729.3	2724.1	2721.6
12.5°	2717.5	2691.9	2708.8	2703.6	2703.1
15°	2675.4	2652.9	2675.4	2675.4	2672.9
17.5°	2622.6	2602.0	2626.2	2627.7	2626.2
20°	2585.7	2563.1	2593.3	2590.8	2593.3
22.5°	2540.5	2521.9	2554.4	2547.7	2550.3
25°	2470.2	2452.7	2488.2	2480.5	2480.5
27.5°	2387.1	2374.6	2413.3	2405.1	2405.1
30°	2331.7	2319.2	2359.9	2349.7	2349.7
32.5°	2270.1	2261.6	2300.4	2288.1	2288.1
35°	2172.7	2167.7	2206.0	2190.6	2190.6
37.5°	2072.1	2067.6	2102.4	2083.8	2077.8
40°	1998.2	1995.7	2026.5	2005.9	2005.9
42.5°	1924.4	1921.9	1948.5	1923.8	1923.8
45°	1811.0	1806.0	1823.8	1800.6	1795.6
47.5°	1687.3	1682.3	1693.5	1668.3	1665.8
50°	1603.2	1598.2	1603.2	1580.1	1577.6
52.5°	1517.0	1508.0	1508.8	1485.7	1485.2
55°	1385.2	1367.6	1367.2	1346.7	1346.7
57.5°	1245.6	1222.6	1224.6	1207.1	1204.6
60°	1149.2	1124.1	1126.1	1110.6	1108.1
62.5°	1054.8	1025.7	1031.7	1014.2	1013.7
65°	897.8	877.7	879.8	872.1	872.1
67.5°	747.0	728.4	741.8	735.7	735.2
70°	636.2	623.6	641.3	641.2	638.7
72.5°	533.5	533.0	555.1	555.1	556.6
75°	387.3	404.9	428.4	430.9	430.9
77.5°	258.6	289.7	315.5	316.5	316.0
80°	184.7	219.8	243.7	248.8	246.3
82.5°	125.2	162.3	182.1	187.2	184.7
85°	56.4	86.5	102.6	105.1	102.6
87.5°	17.4	37.5	47.2	47.6	43.6
90°	5.1	15.2	30.9	33.4	33.4
92.5°	62.7	221.7	438.2	210.9	146.6
95°	144.0	513.6	1548.1	791.6	547.7
97.5°	229.9	587.9	2428.0	2028.4	1529.6
100°	295.7	617.6	2707.8	2833.2	2350.4
102.5°	359.5	659.2	2800.4	3435.8	3039.6
105°	470.6	732.1	2813.3	4208.9	3949.9
107.5°	575.5	808.8	2693.4	4606.1	4673.0
110°	645.5	866.7	2584.4	4729.5	4973.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	719.5	924.7	2479.5	4702.2	5103.0
115°	830.6	1016.7	2342.7	4526.5	5119.9
117.5°	931.9	1106.4	2236.7	4246.2	4907.0
120°	997.8	1166.2	2183.2	4045.0	4723.9
122.5°	1055.4	1221.8	2144.2	3839.3	4516.1
125°	1134.0	1302.5	2103.5	3555.3	4183.9
127.5°	1209.7	1375.6	2077.8	3304.8	3866.1
130°	1254.9	1420.9	2067.5	3161.3	3654.2
132.5°	1300.2	1464.1	2057.2	3034.9	3487.5
135°	1365.5	1523.9	2044.4	2868.2	3247.9
137.5°	1427.7	1579.6	2037.7	2726.7	3038.5
140°	1470.9	1616.8	2031.5	2639.7	2921.3
142.5°	1516.2	1652.0	2027.4	2558.4	2795.8
145°	1578.9	1702.1	2018.7	2452.2	2633.3
147.5°	1646.8	1753.9	2009.9	2362.9	2505.2
150°	1692.1	1785.1	2005.8	2306.8	2425.0
152.5°	1733.2	1814.2	2003.7	2261.0	2357.1
155°	1792.4	1857.7	2000.7	2200.3	2270.7
157.5°	1844.3	1895.1	2001.2	2157.6	2204.8
160°	1877.2	1920.0	2003.2	2132.6	2167.8
162.5°	1906.0	1940.7	2005.3	2111.8	2137.0
165°	1944.1	1966.7	2008.4	2088.3	2098.4
167.5°	1974.9	1988.0	2010.9	2070.2	2074.2
170°	1995.5	2000.5	2010.9	2059.8	2059.8
172.5°	2007.9	2008.9	2013.0	2049.5	2049.5
175°	2021.2	2018.7	2010.9	2039.1	2034.1
177.5°	2026.9	2022.9	2012.5	2028.9	2024.8
180°	2018.7	2018.7	2018.7	2018.7	2018.7

(END OF REPORT)