

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: P563017

Luminaire Tested: **SQ4-PC3-125U-075D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563017
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

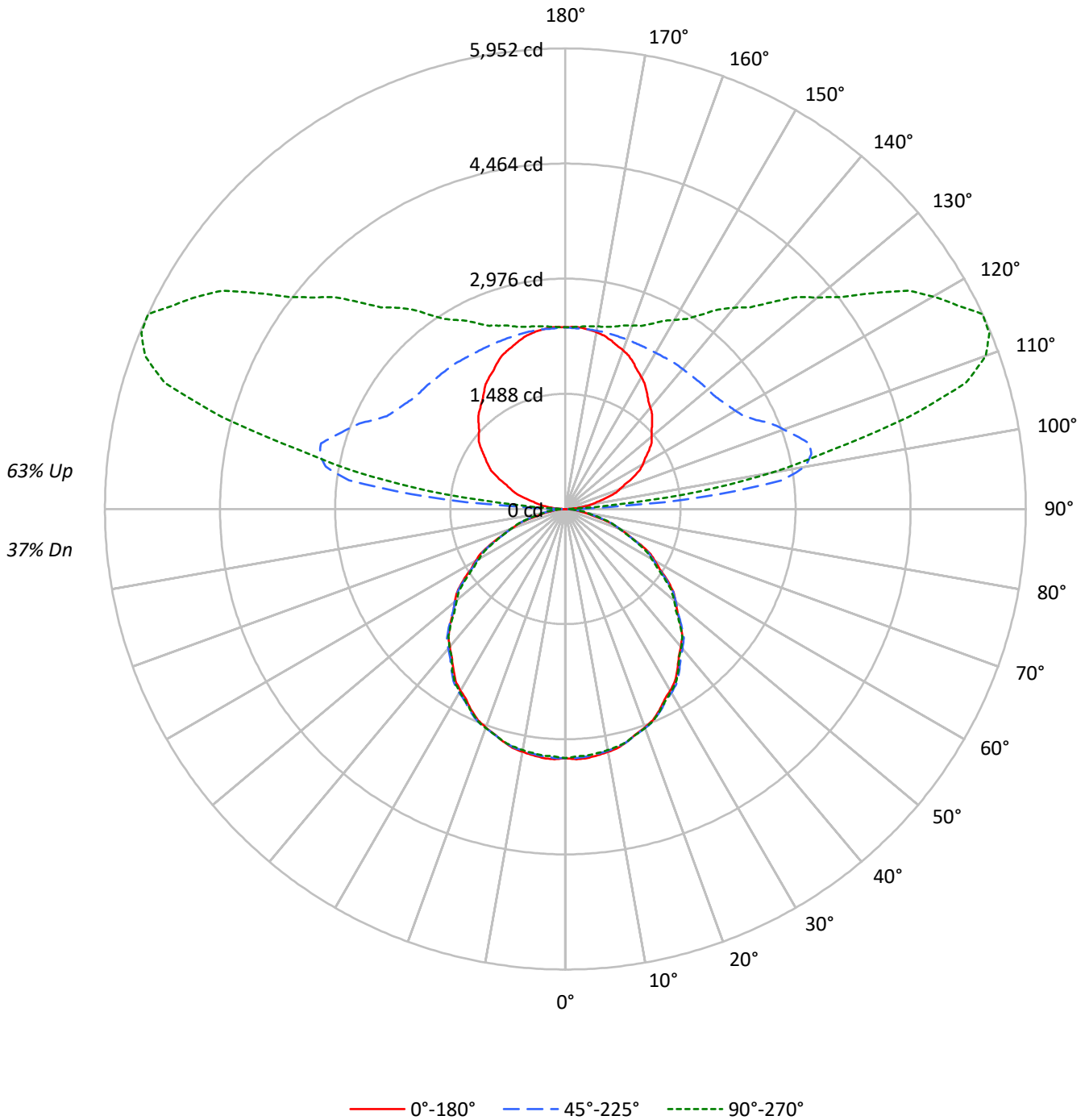
Lumens per Lamp: N/A
Luminaire Lumens: 23943.6 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

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	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37	37	37	37	
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31	31	31	31	
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31	26	26	26	26	
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22	22	22	22	
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19	19	19	19	
5	66	55	47	41	59	50	43	38	41	36	32	32	29	26	24	22	20	16	16	16	16	
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17	14	14	14	14	
7	56	44	36	31	51	40	33	28	33	28	24	26	23	20	20	17	15	13	13	13	13	
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14	11	11	11	11	
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10	10	10	10	
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9	9	9	9	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9904	9904	9904
5°	9979	9914	9878
10°	9954	9908	9880
15°	9902	9902	9893
20°	9837	9866	9866
25°	9744	9815	9785
30°	9625	9742	9700
35°	9482	9628	9561
40°	9326	9457	9361
45°	9156	9221	9078
50°	8917	8917	8774
55°	8634	8522	8394
60°	8217	8052	7923
65°	7595	7443	7377
70°	6649	6703	6676
75°	5351	5917	5953
80°	3802	5017	5071
85°	2315	4210	4210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.8	1.3
10°-20°	874.6	3.7
20°-30°	1324.5	5.5
30°-40°	1587.9	6.6
40°-50°	1619.1	6.8
50°-60°	1413.4	5.9
60°-70°	1011.9	4.2
70°-80°	521.2	2.2
80°-90°	137.3	0.6
90°-100°	1097.8	4.6
100°-110°	2957.1	12.4
110°-120°	3103.4	13.0
120°-130°	2518.3	10.5
130°-140°	1975.0	8.2
140°-150°	1516.3	6.3
150°-160°	1090.2	4.6
160°-170°	666.1	2.8
170°-180°	224.6	0.9
0°-30°	2503.9	10.5
0°-40°	4091.8	17.1
0°-60°	7124.4	29.8
0°-90°	8794.7	36.7
90°-120°	7158.3	29.9
90°-150°	13168.0	55.0
90°-180°	15149.0	63.3
0°-180°	23943.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3220	3220	3220	3220	3220	
5°	3232	3200	3212	3202	3200	307
15°	3110	3084	3110	3110	3107	877
25°	2872	2851	2892	2884	2884	1322
35°	2526	2520	2564	2546	2546	1580
45°	2105	2099	2120	2093	2087	1621
55°	1610	1590	1589	1566	1566	1435
65°	1044	1020	1023	1014	1014	1032
75°	450	471	498	501	501	487
85°	66	101	119	122	119	89
90°	6	18	36	39	39	14
95°	167	597	1800	920	637	175
105°	547	851	3270	4893	4592	575
115°	966	1182	2723	5262	5952	950
125°	1318	1514	2445	4133	4864	1177
135°	1587	1772	2376	3334	3776	1225
145°	1836	1979	2347	2851	3061	1151
155°	2084	2160	2326	2558	2640	959
165°	2260	2286	2335	2428	2439	637
175°	2350	2347	2338	2370	2365	223
180°	2347	2347	2347	2347	2347	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3220.4	3220.4	3220.4	3220.4	3220.4
2.5°	3239.5	3211.5	3220.4	3213.0	3201.4
5°	3232.4	3200.3	3211.5	3202.5	3199.6
7.5°	3209.1	3177.0	3191.8	3185.8	3182.9
10°	3187.6	3155.6	3172.7	3166.7	3163.8
12.5°	3159.0	3129.3	3148.9	3142.9	3142.3
15°	3110.1	3083.9	3110.1	3110.0	3107.1
17.5°	3048.7	3024.8	3052.9	3054.6	3052.9
20°	3005.7	2979.5	3014.7	3011.8	3014.7
22.5°	2953.3	2931.7	2969.4	2961.7	2964.6
25°	2871.6	2851.2	2892.4	2883.5	2883.5
27.5°	2774.9	2760.4	2805.4	2795.8	2795.8
30°	2710.5	2696.0	2743.3	2731.4	2731.4
32.5°	2639.0	2629.1	2674.2	2659.8	2659.8
35°	2525.7	2519.8	2564.4	2546.5	2546.5
37.5°	2408.8	2403.5	2444.0	2422.3	2415.3
40°	2322.9	2320.0	2355.7	2331.8	2331.8
42.5°	2237.0	2234.1	2265.0	2236.4	2236.4
45°	2105.2	2099.4	2120.1	2093.2	2087.3
47.5°	1961.5	1955.7	1968.6	1939.4	1936.4
50°	1863.7	1857.9	1863.7	1836.8	1833.9
52.5°	1763.5	1753.0	1753.9	1727.1	1726.5
55°	1610.2	1589.8	1589.3	1565.5	1565.5
57.5°	1448.0	1421.2	1423.6	1403.2	1400.3
60°	1335.9	1306.7	1309.1	1291.1	1288.2
62.5°	1226.2	1192.3	1199.3	1179.0	1178.4
65°	1043.7	1020.3	1022.8	1013.8	1013.8
67.5°	868.3	846.8	862.4	855.2	854.6
70°	739.5	724.9	745.5	745.4	742.5
72.5°	620.2	619.7	645.3	645.3	647.1
75°	450.3	470.7	498.0	501.0	501.0
77.5°	300.6	336.7	366.8	368.0	367.4
80°	214.7	255.5	283.3	289.2	286.3
82.5°	145.5	188.7	211.7	217.6	214.7
85°	65.6	100.6	119.3	122.2	119.3
87.5°	20.3	43.6	54.9	55.4	50.7
90°	6.0	17.7	35.9	38.9	38.9
92.5°	72.9	257.7	509.4	245.2	170.4
95°	167.4	597.1	1799.6	920.3	636.7
97.5°	267.2	683.5	2822.5	2358.0	1778.1
100°	343.8	717.9	3147.8	3293.5	2732.3
102.5°	417.9	766.3	3255.4	3994.1	3533.4
105°	547.0	851.0	3270.3	4892.7	4591.6
107.5°	669.0	940.3	3131.0	5354.5	5432.2
110°	750.3	1007.5	3004.3	5497.9	5781.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	836.4	1074.9	2882.3	5466.1	5932.0
115°	965.6	1181.9	2723.3	5262.0	5951.8
117.5°	1083.3	1286.2	2600.1	4936.1	5704.3
120°	1159.9	1355.7	2538.0	4702.2	5491.4
122.5°	1226.8	1420.3	2492.5	4463.0	5249.9
125°	1318.3	1514.1	2445.3	4132.9	4863.7
127.5°	1406.2	1599.1	2415.4	3841.8	4494.2
130°	1458.8	1651.7	2403.4	3675.0	4247.9
132.5°	1511.4	1702.0	2391.5	3528.0	4054.1
135°	1587.3	1771.5	2376.5	3334.2	3775.5
137.5°	1659.7	1836.2	2368.8	3169.8	3532.2
140°	1709.9	1879.4	2361.6	3068.5	3395.9
142.5°	1762.5	1920.4	2356.8	2974.1	3250.0
145°	1835.5	1978.7	2346.6	2850.6	3061.1
147.5°	1914.4	2038.9	2336.5	2746.8	2912.2
150°	1967.0	2075.1	2331.7	2681.6	2818.9
152.5°	2014.8	2108.9	2329.3	2628.4	2740.0
155°	2083.6	2159.6	2325.7	2557.7	2639.6
157.5°	2144.0	2203.0	2326.3	2508.1	2563.1
160°	2182.2	2231.9	2328.7	2479.1	2520.0
162.5°	2215.7	2256.0	2331.1	2454.9	2484.1
165°	2259.9	2286.2	2334.7	2427.6	2439.3
167.5°	2295.8	2311.0	2337.7	2406.5	2411.2
170°	2319.7	2325.6	2337.7	2394.5	2394.5
172.5°	2334.1	2335.2	2340.1	2382.5	2382.5
175°	2349.6	2346.7	2337.7	2370.4	2364.6
177.5°	2356.2	2351.5	2339.5	2358.5	2353.8
180°	2346.6	2346.6	2346.6	2346.6	2346.6

(END OF REPORT)