

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: P563420

Luminaire Tested: **SQ4-PP3-075U-100D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563420
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-100D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

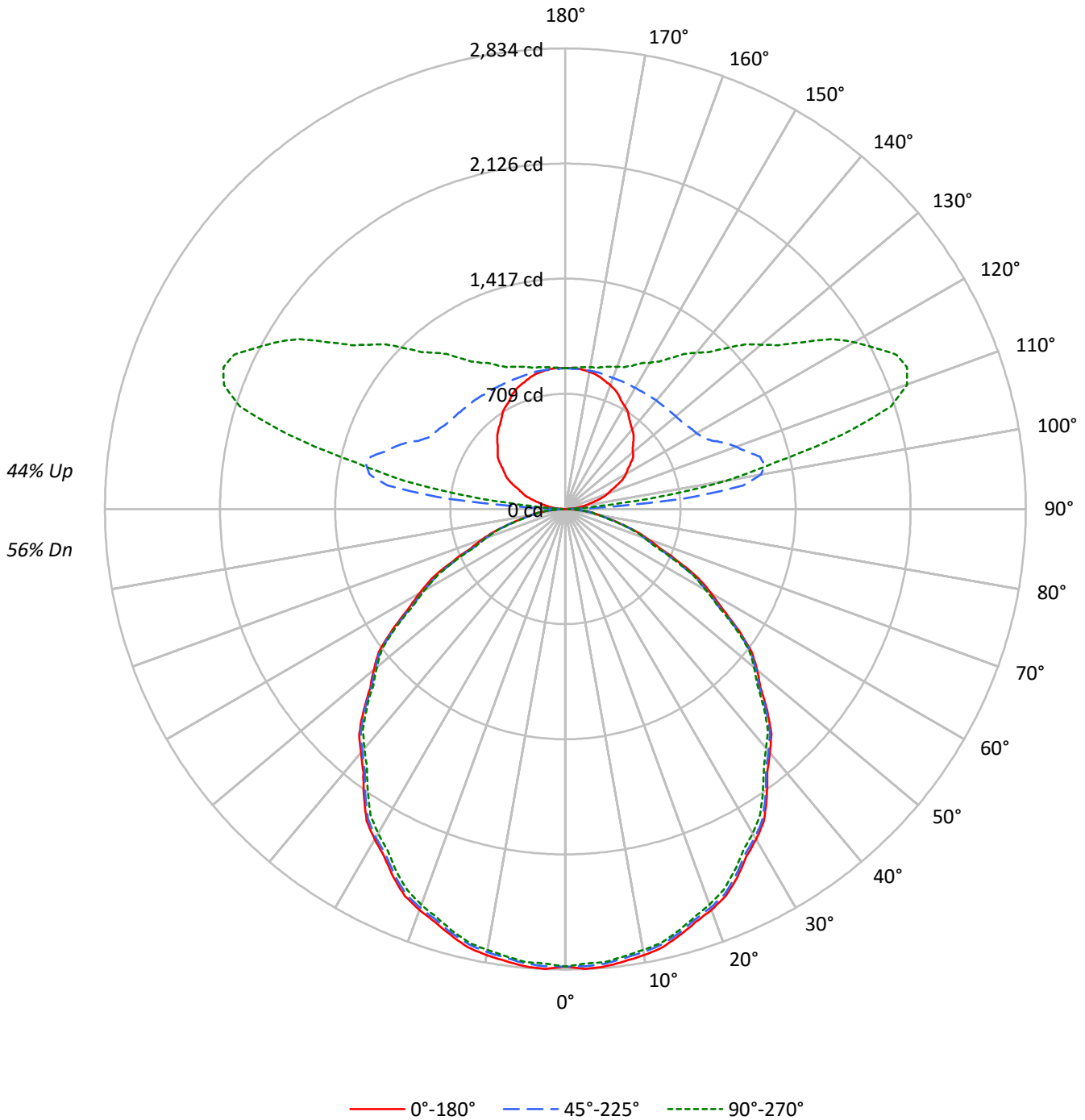
Lumens per Lamp: N/A
Luminaire Lumens: 12860.4 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 108.3
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	53	48
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12989	12989	12989
5°	13085	13004	12959
10°	13062	12970	12912
15°	12976	12905	12835
20°	12890	12817	12720
25°	12737	12649	12523
30°	12501	12435	12278
35°	12174	12090	11938
40°	11784	11710	11577
45°	11463	11382	11269
50°	11051	10980	10874
55°	10480	10340	10261
60°	9540	9267	9221
65°	8404	8055	8027
70°	7256	6957	6957
75°	6245	6158	6069
80°	5507	5574	5441
85°	4308	4700	4700



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.3	2.1
10°-20°	760.2	5.9
20°-30°	1138.7	8.9
30°-40°	1335.7	10.4
40°-50°	1339.8	10.4
50°-60°	1143.0	8.9
60°-70°	745.4	5.8
70°-80°	374.0	2.9
80°-90°	105.7	0.8
90°-100°	409.2	3.2
100°-110°	1125.7	8.8
110°-120°	1161.9	9.0
120°-130°	931.0	7.2
130°-140°	731.2	5.7
140°-150°	560.3	4.4
150°-160°	402.9	3.1
160°-170°	246.4	1.9
170°-180°	83.0	0.6
0°-30°	2165.2	16.8
0°-40°	3500.9	27.2
0°-60°	5983.7	46.5
0°-90°	7208.8	56.1
90°-120°	2696.8	21.0
90°-150°	4919.3	38.3
90°-180°	5652.0	43.9
0°-180°	12860.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2816	2816	2816	2816	2816	
5°	2826	2799	2808	2798	2798	268
15°	2717	2690	2702	2692	2687	767
25°	2502	2473	2485	2463	2460	1151
35°	2162	2140	2147	2122	2120	1350
45°	1757	1745	1745	1727	1727	1353
55°	1303	1298	1286	1278	1276	1158
65°	770	756	738	733	735	768
75°	350	350	346	343	340	380
85°	81	89	89	89	89	96
90°	2	7	13	17	17	7
95°	61	223	724	309	198	64
105°	201	310	1240	1889	1763	212
115°	356	434	995	1981	2248	352
125°	491	560	903	1527	1789	438
135°	592	658	877	1235	1397	457
145°	685	732	864	1052	1133	429
155°	775	800	858	946	973	356
165°	838	849	862	897	903	236
175°	868	869	864	875	873	82
180°	868	868	868	868	868	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2815.7	2815.7	2815.7	2815.7	2815.7
2.5°	2833.5	2810.3	2815.7	2811.5	2799.9
5°	2825.6	2799.0	2808.3	2798.4	2798.4
7.5°	2806.3	2777.4	2786.6	2776.7	2776.2
10°	2788.5	2759.6	2768.8	2758.9	2756.5
12.5°	2762.9	2733.9	2745.1	2733.3	2732.8
15°	2717.0	2690.4	2702.2	2692.2	2687.4
17.5°	2665.2	2636.2	2650.4	2636.5	2634.6
20°	2625.7	2596.7	2610.9	2591.1	2591.1
22.5°	2578.3	2549.3	2565.5	2539.8	2539.8
25°	2502.3	2473.3	2485.0	2462.8	2460.3
27.5°	2412.0	2383.5	2395.7	2370.5	2370.0
30°	2346.8	2320.3	2334.5	2307.3	2304.9
32.5°	2275.8	2251.1	2261.4	2234.2	2231.8
35°	2161.7	2140.0	2146.9	2122.2	2119.8
37.5°	2041.8	2019.6	2027.5	2006.3	2005.3
40°	1956.9	1942.4	1944.6	1927.2	1922.4
42.5°	1878.0	1861.5	1863.6	1846.3	1845.4
45°	1757.0	1745.0	1744.7	1727.4	1727.4
47.5°	1628.7	1619.5	1616.9	1602.5	1602.1
50°	1539.9	1532.6	1530.0	1517.6	1515.2
52.5°	1447.1	1443.7	1435.2	1424.9	1424.4
55°	1303.0	1298.1	1285.7	1278.2	1275.8
57.5°	1146.5	1136.9	1122.8	1112.0	1113.9
60°	1034.0	1024.3	1004.4	999.4	999.4
62.5°	925.4	913.8	893.8	887.0	890.9
65°	769.9	755.5	737.9	733.0	735.4
67.5°	628.8	615.8	596.7	596.7	594.7
70°	538.0	530.7	515.8	515.8	515.8
72.5°	457.0	453.6	442.7	442.7	440.7
75°	350.4	350.4	345.5	343.0	340.5
77.5°	262.6	263.5	261.1	258.5	254.2
80°	207.3	212.1	209.8	207.2	204.8
82.5°	156.0	160.8	160.4	156.0	155.5
85°	81.4	88.7	88.8	88.8	88.8
87.5°	22.1	30.9	34.2	35.0	36.9
90°	1.8	7.3	12.9	16.6	16.6
92.5°	25.5	108.9	188.6	72.4	59.4
95°	60.9	223.3	723.6	309.4	197.5
97.5°	99.3	247.7	1104.2	850.8	600.3
100°	127.4	262.7	1223.8	1235.2	1007.8
102.5°	153.9	280.6	1254.8	1532.4	1323.8
105°	201.2	309.5	1240.4	1889.1	1762.7
107.5°	246.2	345.1	1169.9	2063.7	2101.3
110°	278.7	369.0	1116.7	2107.2	2237.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	308.3	395.6	1063.6	2079.2	2277.0
115°	356.2	433.8	994.9	1981.1	2248.2
117.5°	402.0	473.5	951.3	1843.4	2145.6
120°	430.1	498.7	932.1	1740.3	2052.5
122.5°	455.2	523.8	918.8	1649.9	1946.2
125°	491.0	559.6	902.6	1526.9	1788.6
127.5°	524.9	590.3	891.9	1424.3	1653.8
130°	542.7	609.4	886.0	1363.3	1572.6
132.5°	563.3	630.1	881.6	1309.7	1498.8
135°	592.5	657.5	876.8	1234.8	1397.3
137.5°	619.8	680.1	872.7	1174.4	1308.3
140°	640.5	696.4	871.2	1134.2	1255.2
142.5°	658.2	709.8	868.3	1098.4	1202.0
145°	684.8	731.7	863.8	1052.1	1133.3
147.5°	713.2	753.6	861.6	1011.1	1076.1
150°	730.9	767.0	860.1	988.7	1039.2
152.5°	747.2	780.4	858.7	969.3	1011.1
155°	775.2	800.5	858.3	945.7	972.7
157.5°	795.5	816.1	858.3	926.3	945.1
160°	810.3	826.6	858.3	915.9	930.3
162.5°	822.1	835.5	859.8	906.9	918.5
165°	838.0	848.8	862.0	897.2	902.6
167.5°	849.1	857.4	863.8	889.0	890.4
170°	856.5	861.9	863.8	886.0	886.0
172.5°	862.4	864.9	863.8	881.5	880.1
175°	867.5	869.3	863.8	874.9	873.1
177.5°	869.0	869.0	863.1	871.9	869.0
180°	867.5	867.5	867.5	867.5	867.5

(END OF REPORT)