

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: P563324

Luminaire Tested: **SQ4-PP3-050U-100D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563324
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-100D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

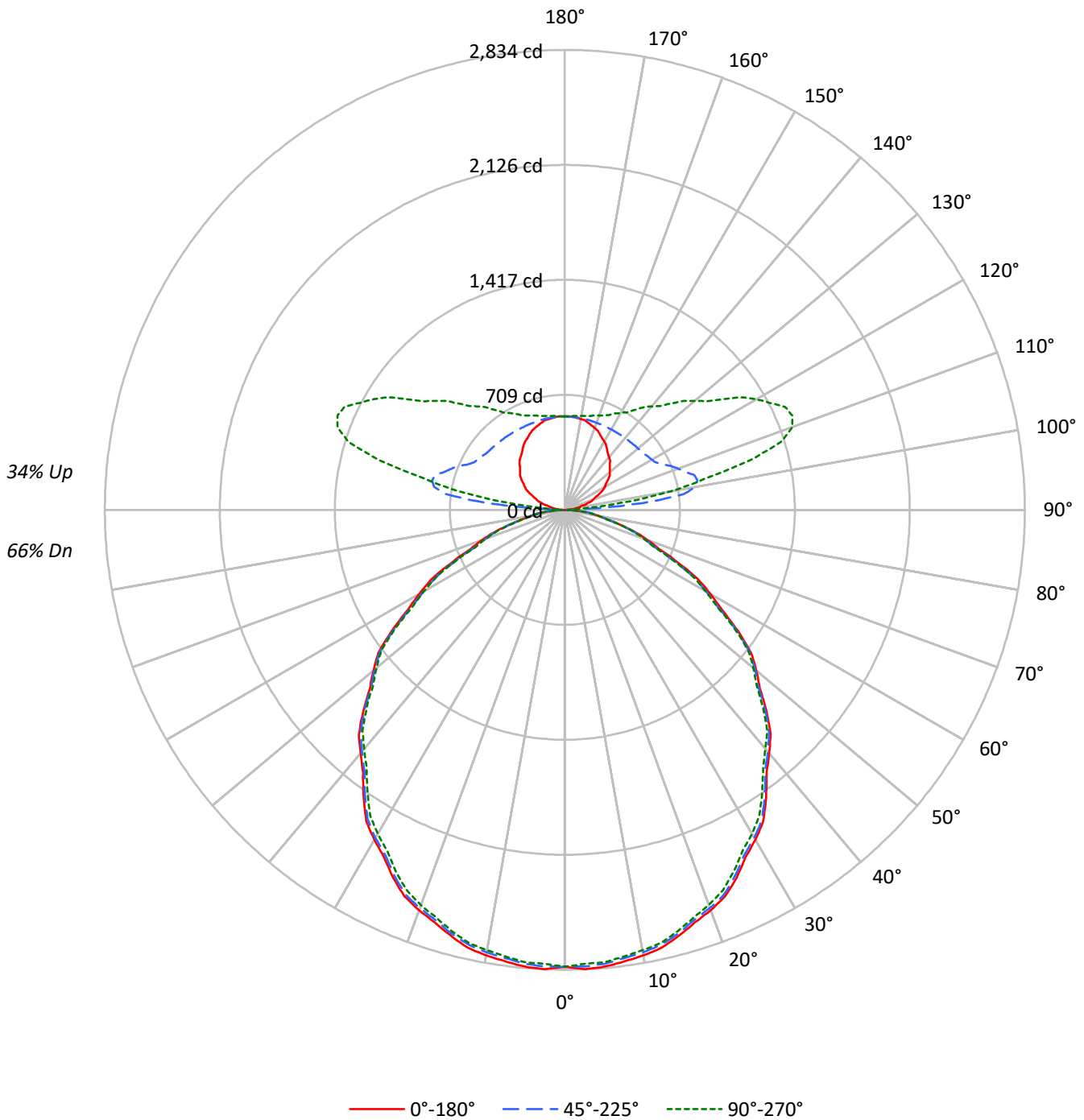
Lumens per Lamp: N/A
Luminaire Lumens: 10969.2 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 95.4
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	52	73	63	56	50	56	51	46	50	46	42	44	41	38	35
5	71	60	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30
6	66	54	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	21
9	53	40	33	27	50	38	31	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

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	2.4
10°-20°	760.2	6.9
20°-30°	1138.7	10.4
30°-40°	1335.7	12.2
40°-50°	1339.8	12.2
50°-60°	1143.0	10.4
60°-70°	745.4	6.8
70°-80°	374.0	3.4
80°-90°	105.7	1.0
90°-100°	276.5	2.5
100°-110°	751.0	6.8
110°-120°	772.2	7.0
120°-130°	617.4	5.6
130°-140°	485.1	4.4
140°-150°	372.0	3.4
150°-160°	267.5	2.4
160°-170°	163.6	1.5
170°-180°	55.1	0.5
0°-30°	2165.2	19.7
0°-40°	3500.9	31.9
0°-60°	5983.7	54.6
0°-90°	7208.8	65.7
90°-120°	1799.7	16.4
90°-150°	3274.1	29.8
90°-180°	3760.0	34.3
0°-180°	10969.2	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	6
95°	41	151	482	210	141	43
105°	133	208	826	1258	1183	142
115°	237	288	661	1315	1498	234
125°	326	371	598	1008	1189	291
135°	393	436	582	821	926	304
145°	454	486	574	698	750	285
155°	513	531	570	626	644	237
165°	556	563	572	596	598	157
175°	576	578	574	581	580	55
180°	576	576	576	576	576	

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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°	1.9	7.3	13.0	16.7	16.7
92.5°	16.7	75.7	131.5	56.5	47.8
95°	40.7	151.2	481.5	209.5	140.7
97.5°	67.4	167.0	738.1	574.3	403.3
100°	85.2	177.5	816.7	827.8	668.5
102.5°	103.0	188.1	837.4	1023.8	883.3
105°	133.3	207.6	825.9	1257.5	1183.3
107.5°	164.8	230.4	778.1	1378.2	1398.9
110°	187.0	246.8	742.6	1402.0	1490.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	206.3	263.1	707.0	1382.3	1515.9
115°	237.0	287.7	661.1	1315.2	1498.1
117.5°	265.9	314.4	631.8	1220.2	1426.3
120°	285.2	332.3	618.5	1156.5	1361.1
122.5°	301.5	348.6	609.6	1092.6	1290.0
125°	325.9	371.2	598.1	1007.8	1188.9
127.5°	347.8	392.7	591.8	943.5	1098.9
130°	361.1	404.6	588.9	903.2	1042.6
132.5°	374.4	417.9	585.9	868.7	992.2
135°	392.6	436.0	581.5	820.9	925.9
137.5°	412.2	451.7	579.2	778.7	867.0
140°	424.1	462.1	577.8	751.8	831.5
142.5°	435.9	471.0	576.3	730.8	797.4
145°	453.7	486.3	574.1	697.5	750.0
147.5°	473.7	501.6	572.2	671.3	712.6
150°	487.0	510.6	572.2	656.3	688.9
152.5°	497.4	518.0	570.7	642.8	669.6
155°	513.0	531.1	570.4	626.3	644.4
157.5°	528.1	542.3	570.4	615.1	628.9
160°	537.0	549.7	570.4	607.6	618.5
162.5°	545.9	555.7	571.8	601.7	609.6
165°	555.5	562.8	572.2	596.3	598.1
167.5°	565.5	569.2	574.1	590.0	591.5
170°	568.5	572.1	574.1	587.0	587.0
172.5°	571.5	573.6	574.1	584.1	584.1
175°	575.9	577.7	574.1	581.4	579.6
177.5°	577.4	577.4	573.0	578.8	575.9
180°	575.9	575.9	575.9	575.9	575.9

(END OF REPORT)