

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: P563616

Luminaire Tested: **SQ4-PP3-100U-100D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563616
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-100D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

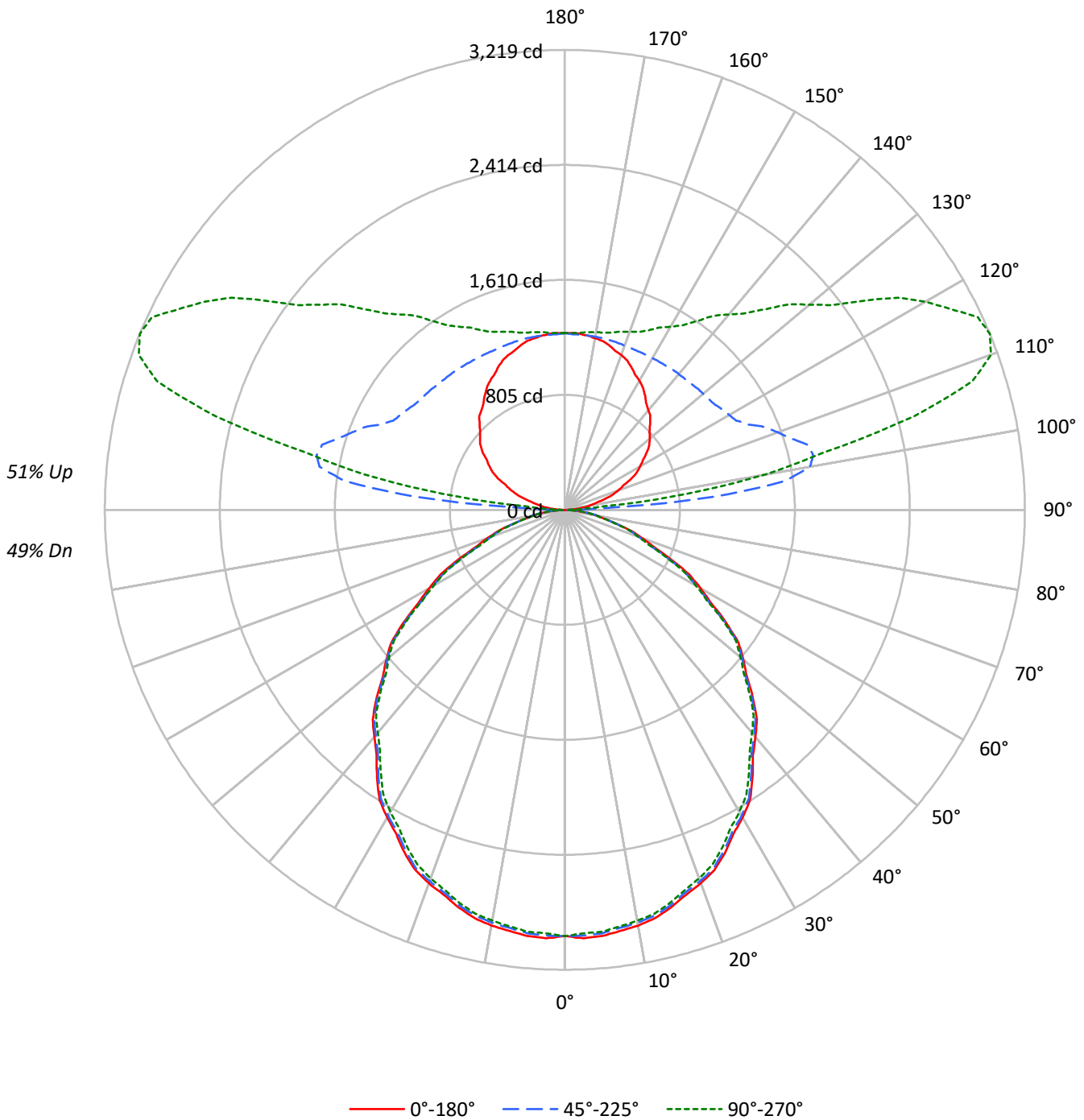
Lumens per Lamp: N/A
Luminaire Lumens: 15670.2 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 121.2
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	22	20	17
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13761	13761	13761
5°	13862	13777	13729
10°	13839	13741	13679
15°	13747	13672	13597
20°	13656	13579	13477
25°	13494	13400	13268
30°	13244	13175	13007
35°	12897	12810	12647
40°	12485	12406	12264
45°	12144	12059	11939
50°	11708	11633	11521
55°	11102	10955	10871
60°	10106	9818	9769
65°	8904	8533	8504
70°	7687	7370	7370
75°	6616	6523	6431
80°	5834	5903	5765
85°	4568	4981	4981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.1	1.8
10°-20°	805.4	5.1
20°-30°	1206.4	7.7
30°-40°	1415.1	9.0
40°-50°	1419.5	9.1
50°-60°	1210.9	7.7
60°-70°	789.7	5.0
70°-80°	396.2	2.5
80°-90°	112.2	0.7
90°-100°	579.0	3.7
100°-110°	1598.3	10.2
110°-120°	1648.4	10.5
120°-130°	1324.6	8.5
130°-140°	1041.0	6.6
140°-150°	798.4	5.1
150°-160°	573.8	3.7
160°-170°	350.9	2.2
170°-180°	118.3	0.8
0°-30°	2293.9	14.6
0°-40°	3709.0	23.7
0°-60°	6339.4	40.5
0°-90°	7637.5	48.7
90°-120°	3825.6	24.4
90°-150°	6989.6	44.6
90°-180°	8033.0	51.3
0°-180°	15670.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2983	2983	2983	2983	2983	
5°	2994	2965	2975	2965	2965	284
15°	2878	2850	2863	2852	2847	812
25°	2651	2620	2633	2609	2607	1219
35°	2290	2267	2275	2248	2246	1431
45°	1862	1849	1848	1830	1830	1433
55°	1380	1375	1362	1354	1352	1227
65°	816	800	782	776	779	814
75°	371	371	366	363	361	403
85°	86	94	94	94	94	101
90°	4	8	16	18	20	9
95°	85	313	1050	432	281	91
105°	285	440	1758	2685	2528	303
115°	510	617	1416	2804	3189	501
125°	700	797	1284	2172	2550	623
135°	843	934	1248	1760	1984	652
145°	977	1045	1232	1498	1612	612
155°	1102	1138	1222	1344	1387	508
165°	1193	1208	1228	1276	1286	336
175°	1236	1238	1230	1248	1244	117
180°	1236	1236	1236	1236	1236	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2983.1	2983.1	2983.1	2983.1	2983.1
2.5°	3001.9	2977.4	2983.1	2978.6	2966.3
5°	2993.5	2965.4	2975.2	2964.8	2964.8
7.5°	2973.1	2942.5	2952.2	2941.7	2941.2
10°	2954.3	2923.6	2933.4	2922.9	2920.3
12.5°	2927.1	2896.4	2908.3	2895.7	2895.2
15°	2878.5	2850.4	2862.8	2852.2	2847.1
17.5°	2823.6	2792.9	2807.9	2793.2	2791.2
20°	2781.8	2751.1	2766.1	2745.2	2745.2
22.5°	2731.6	2700.9	2718.0	2690.8	2690.8
25°	2651.0	2620.4	2632.7	2609.1	2606.6
27.5°	2555.3	2525.2	2538.1	2511.4	2510.9
30°	2486.3	2458.2	2473.3	2444.4	2441.9
32.5°	2411.0	2385.0	2395.9	2367.0	2364.5
35°	2290.2	2267.2	2274.6	2248.4	2245.8
37.5°	2163.2	2139.7	2148.0	2125.5	2124.5
40°	2073.2	2057.9	2060.2	2041.8	2036.6
42.5°	1989.6	1972.2	1974.4	1956.1	1955.1
45°	1861.5	1848.7	1848.4	1830.1	1830.1
47.5°	1725.5	1715.8	1713.0	1697.8	1697.3
50°	1631.4	1623.7	1620.9	1607.8	1605.3
52.5°	1533.1	1529.5	1520.6	1509.6	1509.1
55°	1380.4	1375.3	1362.1	1354.2	1351.7
57.5°	1214.7	1204.4	1189.6	1178.1	1180.2
60°	1095.4	1085.2	1064.1	1058.8	1058.8
62.5°	980.4	968.1	946.9	939.7	943.8
65°	815.7	800.4	781.7	776.5	779.1
67.5°	666.2	652.4	632.2	632.1	630.1
70°	569.9	562.3	546.4	546.4	546.4
72.5°	484.2	480.6	469.0	469.0	466.9
75°	371.2	371.2	366.0	363.3	360.8
77.5°	278.2	279.2	276.6	273.9	269.3
80°	219.6	224.7	222.2	219.6	217.0
82.5°	165.2	170.3	169.9	165.2	164.7
85°	86.3	93.9	94.1	94.1	94.1
87.5°	23.8	32.8	36.6	37.1	39.5
90°	4.0	7.8	15.8	17.8	19.8
92.5°	35.6	147.8	264.3	96.4	75.2
95°	85.1	313.3	1050.3	431.7	280.9
97.5°	140.8	350.9	1555.9	1197.9	867.6
100°	182.0	373.5	1742.6	1755.0	1426.2
102.5°	221.5	399.1	1779.0	2168.4	1856.6
105°	284.8	439.6	1758.5	2684.6	2527.9
107.5°	352.1	489.8	1660.4	2933.5	2990.8
110°	399.6	523.3	1584.4	2987.1	3172.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	442.3	561.4	1513.2	2944.8	3218.7
115°	510.3	616.7	1416.3	2803.7	3188.6
117.5°	569.7	675.7	1352.6	2605.1	3043.0
120°	609.2	713.7	1327.3	2470.7	2911.7
122.5°	647.2	747.0	1306.7	2345.2	2762.9
125°	700.2	796.9	1283.7	2172.5	2549.7
127.5°	745.3	842.0	1270.3	2026.6	2351.9
130°	775.4	872.1	1264.0	1937.3	2233.2
132.5°	803.9	895.9	1257.6	1862.3	2130.3
135°	842.6	933.5	1248.1	1759.6	1984.0
137.5°	886.2	968.9	1243.4	1673.4	1864.9
140°	909.9	991.1	1240.2	1615.9	1784.2
142.5°	936.8	1011.8	1237.1	1564.8	1713.0
145°	977.1	1044.8	1232.3	1498.0	1612.1
147.5°	1015.9	1075.1	1228.0	1441.6	1530.2
150°	1044.4	1092.8	1226.4	1408.0	1479.6
152.5°	1066.6	1111.8	1224.8	1379.2	1438.4
155°	1101.8	1138.5	1222.4	1344.1	1386.6
157.5°	1134.2	1162.4	1222.8	1318.4	1347.4
160°	1153.2	1178.3	1224.4	1304.0	1325.3
162.5°	1169.0	1191.1	1226.0	1291.2	1307.9
165°	1192.8	1208.2	1228.4	1276.1	1285.7
167.5°	1211.0	1220.2	1230.3	1266.8	1269.9
170°	1220.4	1228.2	1230.3	1262.0	1262.0
172.5°	1228.4	1233.0	1230.3	1255.6	1254.1
175°	1236.3	1238.2	1230.3	1248.1	1244.2
177.5°	1239.4	1237.9	1229.9	1240.9	1237.9
180°	1236.3	1236.3	1236.3	1236.3	1236.3

(END OF REPORT)