

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: P564288

Luminaire Tested: **SQ4-PR1-100U-100D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564288
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-100U-100D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

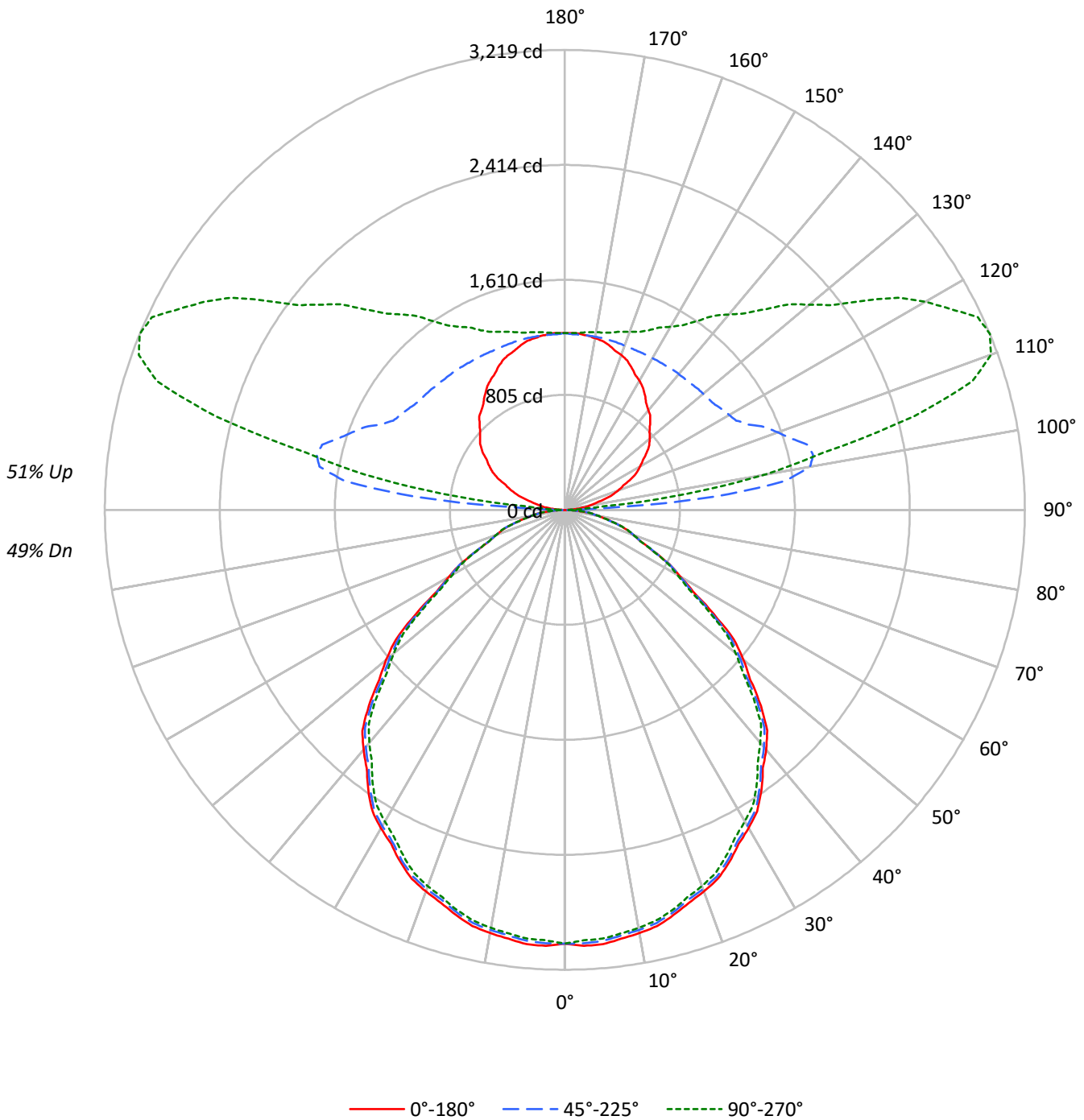
Lumens per Lamp: N/A
Luminaire Lumens: 15625.0 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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	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	94	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41				
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	42	40	35				
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34	30				
4	75	64	56	50	69	59	53	47	51	45	41	42	39	35	35	32	30	26				
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23				
6	63	51	43	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20				
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	28	34	28	25	29	24	21	24	21	18	16				
9	51	38	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14				
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14006	14006	14006
5°	14132	14023	13950
10°	14087	13989	13916
15°	14025	13938	13863
20°	13955	13864	13762
25°	13856	13763	13604
30°	13707	13609	13414
35°	13504	13387	13195
40°	13197	13055	12818
45°	12659	12437	12181
50°	11711	11430	11204
55°	10221	9990	9780
60°	8614	8541	8372
65°	7450	7478	7421
70°	6842	6877	6877
75°	6572	6572	6618
80°	6182	6254	6182
85°	4981	5536	5536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.1	1.8
10°-20°	821.4	5.3
20°-30°	1239.0	7.9
30°-40°	1476.3	9.4
40°-50°	1455.5	9.3
50°-60°	1112.3	7.1
60°-70°	688.3	4.4
70°-80°	390.9	2.5
80°-90°	121.5	0.8
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	6.7
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°	2347.5	15.0
0°-40°	3823.8	24.5
0°-60°	6391.6	40.9
0°-90°	7592.4	48.6
90°-120°	3825.6	24.5
90°-150°	6989.6	44.7
90°-180°	8033.0	51.4
0°-180°	15625.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3036	3036	3036	3036	3036	
5°	3052	3018	3028	3018	3012	290
15°	2937	2906	2918	2908	2903	829
25°	2722	2689	2704	2675	2673	1253
35°	2398	2370	2377	2346	2343	1497
45°	1940	1915	1906	1872	1867	1487
55°	1271	1250	1242	1221	1216	1139
65°	682	677	685	680	680	691
75°	369	369	369	371	371	389
85°	94	99	105	105	105	109
90°	4	8	16	18	20	10
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	

TEST NUMBER: P564288

CATALOG NUMBER: SQ4-PR1-100U-100D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3036.1	3036.1	3036.1	3036.1	3036.1
2.5°	3054.9	3028.3	3036.1	3029.5	3015.1
5°	3051.8	3018.5	3028.2	3017.6	3012.5
7.5°	3028.2	2995.5	3005.2	2994.7	2991.6
10°	3007.3	2976.6	2986.4	2975.8	2970.7
12.5°	2984.3	2951.6	2963.4	2950.7	2945.6
15°	2936.7	2906.0	2918.4	2907.8	2902.7
17.5°	2884.4	2851.7	2864.0	2851.8	2845.2
20°	2842.6	2811.9	2824.2	2805.9	2803.3
22.5°	2796.5	2765.8	2778.2	2753.6	2753.1
25°	2722.3	2689.0	2704.0	2675.1	2672.6
27.5°	2633.9	2603.2	2615.6	2586.2	2583.1
30°	2573.2	2542.5	2554.9	2523.4	2518.3
32.5°	2504.2	2475.5	2485.9	2454.4	2451.3
35°	2398.0	2369.9	2377.1	2345.6	2343.1
37.5°	2277.2	2251.6	2255.7	2221.2	2218.6
40°	2191.4	2165.8	2167.9	2131.2	2128.6
42.5°	2097.3	2071.7	2069.5	2032.9	2030.3
45°	1940.4	1914.8	1906.4	1872.3	1867.1
47.5°	1761.5	1735.9	1720.2	1692.4	1688.8
50°	1631.8	1606.2	1592.6	1568.9	1561.2
52.5°	1491.6	1466.1	1454.5	1432.9	1425.2
55°	1270.9	1250.5	1242.1	1221.1	1216.0
57.5°	1061.2	1047.4	1045.0	1024.5	1022.5
60°	933.6	925.9	925.7	907.4	907.4
62.5°	824.8	819.2	823.2	811.1	809.1
65°	682.5	677.4	685.1	679.9	679.9
67.5°	570.1	570.1	574.8	572.7	572.7
70°	507.3	507.3	509.9	509.9	509.9
72.5°	450.8	448.8	455.5	455.5	453.4
75°	368.7	368.7	368.7	371.3	371.3
77.5°	287.1	287.6	289.7	289.2	287.1
80°	232.7	235.3	235.4	232.7	232.7
82.5°	178.3	180.9	181.0	180.4	178.3
85°	94.1	99.3	104.6	104.6	104.6
87.5°	28.0	36.9	45.0	45.4	43.7
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



TEST NUMBER: P564288

CATALOG NUMBER: SQ4-PR1-100U-100D-835-1D-UNV-STD-W-8

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)