

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: P563651

Luminaire Tested: **SQ4-PP3-100U-125D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563651
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-125D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

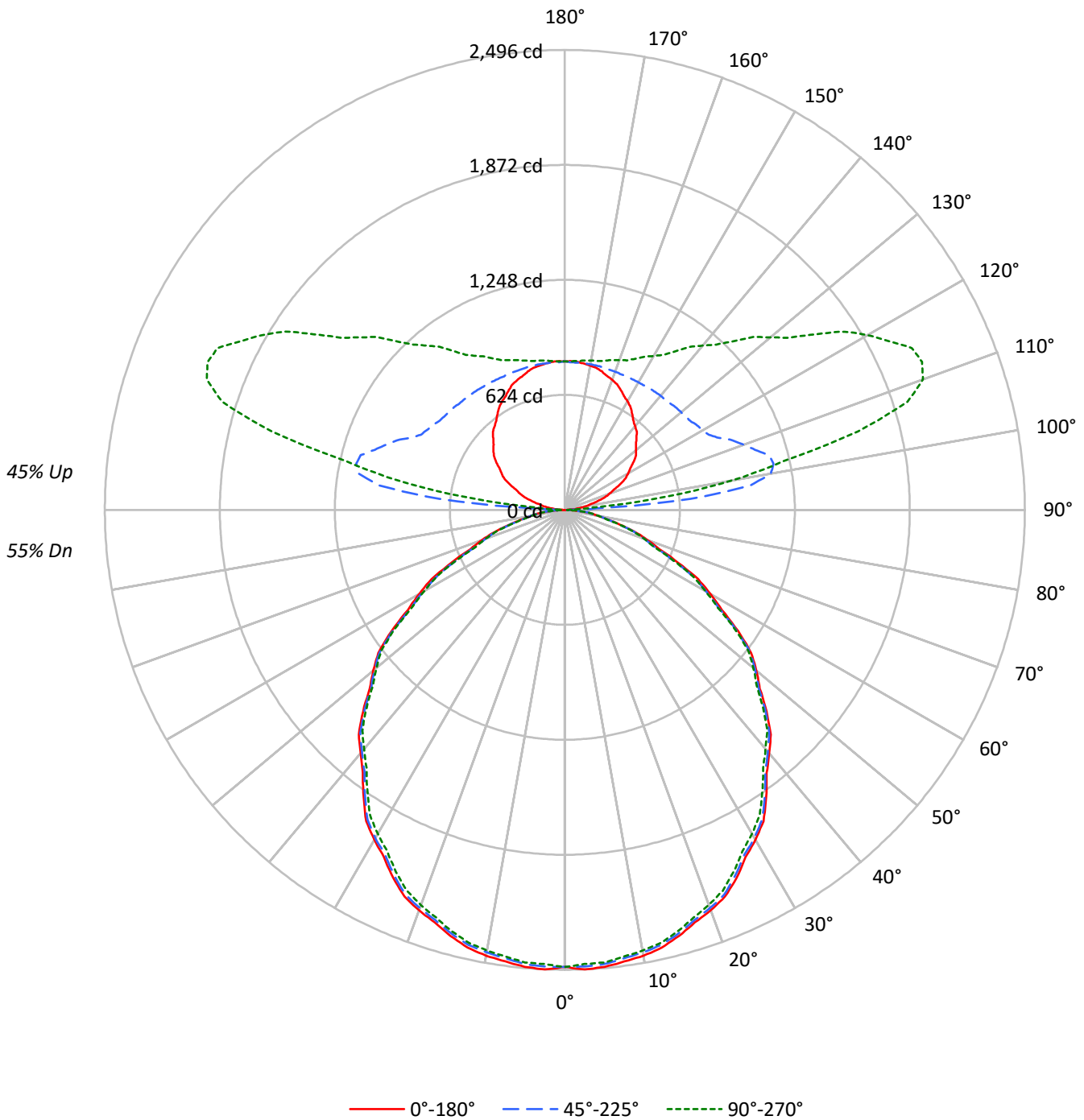
Lumens per Lamp: N/A
Luminaire Lumens: 11585.7 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 107.3
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	23	20	24	21	18	16
10	48	36	28	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15259	15259	15259
5°	15371	15276	15223
10°	15345	15236	15168
15°	15243	15160	15077
20°	15142	15057	14943
25°	14962	14859	14711
30°	14685	14608	14423
35°	14301	14204	14023
40°	13843	13757	13599
45°	13465	13371	13238
50°	12982	12899	12775
55°	12311	12148	12054
60°	11207	10886	10833
65°	9873	9462	9430
70°	8524	8172	8172
75°	7336	7234	7129
80°	6468	6546	6394
85°	5060	5526	5526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.6	2.0
10°-20°	669.8	5.8
20°-30°	1003.3	8.7
30°-40°	1176.8	10.2
40°-50°	1180.5	10.2
50°-60°	1007.0	8.7
60°-70°	656.8	5.7
70°-80°	329.5	2.8
80°-90°	92.9	0.8
90°-100°	377.3	3.3
100°-110°	1041.6	9.0
110°-120°	1074.2	9.3
120°-130°	863.2	7.5
130°-140°	678.4	5.9
140°-150°	520.3	4.5
150°-160°	373.9	3.2
160°-170°	228.7	2.0
170°-180°	77.1	0.7
0°-30°	1907.7	16.5
0°-40°	3084.5	26.6
0°-60°	5272.0	45.5
0°-90°	6351.1	54.8
90°-120°	2493.0	21.5
90°-150°	4554.9	39.3
90°-180°	5235.0	45.2
0°-180°	11585.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2481	2481	2481	2481	2481	
5°	2490	2466	2474	2466	2466	236
15°	2394	2370	2381	2372	2368	675
25°	2205	2179	2189	2170	2168	1014
35°	1905	1886	1892	1870	1868	1190
45°	1548	1537	1537	1522	1522	1192
55°	1148	1144	1133	1126	1124	1020
65°	678	666	650	646	648	677
75°	309	309	304	302	300	335
85°	72	78	78	78	78	84
90°	3	5	10	12	13	7
95°	55	204	684	281	183	59
105°	186	286	1146	1750	1647	197
115°	333	402	923	1827	2078	327
125°	456	519	837	1416	1662	406
135°	549	608	813	1147	1293	425
145°	637	681	803	976	1051	399
155°	718	742	797	876	904	331
165°	777	787	800	832	838	219
175°	806	807	802	813	811	77
180°	806	806	806	806	806	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2480.8	2480.8	2480.8	2480.8	2480.8
2.5°	2496.4	2476.0	2480.8	2477.1	2466.9
5°	2489.5	2466.1	2474.2	2465.6	2465.6
7.5°	2472.5	2447.0	2455.1	2446.4	2446.0
10°	2456.9	2431.3	2439.5	2430.7	2428.6
12.5°	2434.2	2408.7	2418.6	2408.1	2407.7
15°	2393.8	2370.4	2380.8	2372.0	2367.7
17.5°	2348.1	2322.6	2335.1	2322.9	2321.2
20°	2313.4	2287.8	2300.3	2282.9	2282.9
22.5°	2271.6	2246.1	2260.3	2237.7	2237.7
25°	2204.6	2179.1	2189.4	2169.8	2167.7
27.5°	2125.1	2100.0	2110.7	2088.5	2088.1
30°	2067.7	2044.3	2056.8	2032.8	2030.7
32.5°	2005.1	1983.4	1992.4	1968.5	1966.4
35°	1904.6	1885.5	1891.6	1869.8	1867.6
37.5°	1798.9	1779.4	1786.3	1767.6	1766.8
40°	1724.1	1711.4	1713.3	1698.0	1693.7
42.5°	1654.6	1640.1	1642.0	1626.7	1625.9
45°	1548.0	1537.4	1537.2	1521.9	1521.9
47.5°	1435.0	1426.9	1424.5	1411.9	1411.5
50°	1356.7	1350.3	1348.0	1337.1	1335.0
52.5°	1275.0	1272.0	1264.5	1255.4	1255.0
55°	1148.0	1143.7	1132.8	1126.2	1124.1
57.5°	1010.1	1001.6	989.3	979.7	981.4
60°	911.0	902.5	884.9	880.6	880.6
62.5°	815.3	805.1	787.5	781.5	784.9
65°	678.4	665.6	650.1	645.8	647.9
67.5°	554.0	542.5	525.7	525.7	524.0
70°	474.0	467.6	454.4	454.4	454.4
72.5°	402.7	399.7	390.1	390.0	388.3
75°	308.7	308.7	304.4	302.2	300.0
77.5°	231.3	232.2	230.0	227.8	223.9
80°	182.6	186.9	184.8	182.6	180.5
82.5°	137.4	141.7	141.3	137.4	137.0
85°	71.7	78.1	78.3	78.3	78.3
87.5°	19.6	27.0	29.9	30.2	32.1
90°	2.6	5.1	10.3	11.6	12.9
92.5°	23.2	96.3	172.2	62.8	49.0
95°	55.4	204.2	684.5	281.4	183.0
97.5°	91.8	228.7	1013.9	780.6	565.4
100°	118.6	243.4	1135.6	1143.7	929.4
102.5°	144.4	260.1	1159.3	1413.1	1209.9
105°	185.6	286.4	1145.9	1749.5	1647.4
107.5°	229.4	319.2	1082.0	1911.7	1949.0
110°	260.4	341.0	1032.5	1946.6	2067.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.2	365.9	986.1	1919.0	2097.5
115°	332.6	401.9	922.9	1827.1	2077.9
117.5°	371.2	440.3	881.4	1697.7	1983.0
120°	397.0	465.1	864.9	1610.1	1897.4
122.5°	421.8	486.8	851.5	1528.3	1800.5
125°	456.3	519.3	836.6	1415.8	1661.6
127.5°	485.7	548.7	827.8	1320.7	1532.6
130°	505.3	568.3	823.7	1262.5	1455.3
132.5°	523.9	583.9	819.6	1213.6	1388.3
135°	549.1	608.4	813.4	1146.7	1292.9
137.5°	577.5	631.4	810.3	1090.5	1215.3
140°	593.0	645.9	808.2	1053.0	1162.7
142.5°	610.5	659.4	806.2	1019.7	1116.3
145°	636.8	680.9	803.1	976.2	1050.6
147.5°	662.0	700.6	800.2	939.5	997.2
150°	680.6	712.1	799.2	917.6	964.2
152.5°	695.0	724.5	798.2	898.8	937.4
155°	718.0	741.9	796.6	875.9	903.6
157.5°	739.1	757.5	796.9	859.2	878.1
160°	751.5	767.9	797.9	849.8	863.6
162.5°	761.8	776.2	798.9	841.5	852.3
165°	777.3	787.4	800.5	831.6	837.9
167.5°	789.1	795.2	801.8	825.5	827.6
170°	795.3	800.4	801.8	822.4	822.4
172.5°	800.5	803.5	801.8	818.2	817.2
175°	805.6	806.9	801.8	813.3	810.8
177.5°	807.7	806.7	801.5	808.7	806.7
180°	805.6	805.6	805.6	805.6	805.6

(END OF REPORT)