

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: P564319

Luminaire Tested: **SQ4-PR1-100U-125D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564319
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-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

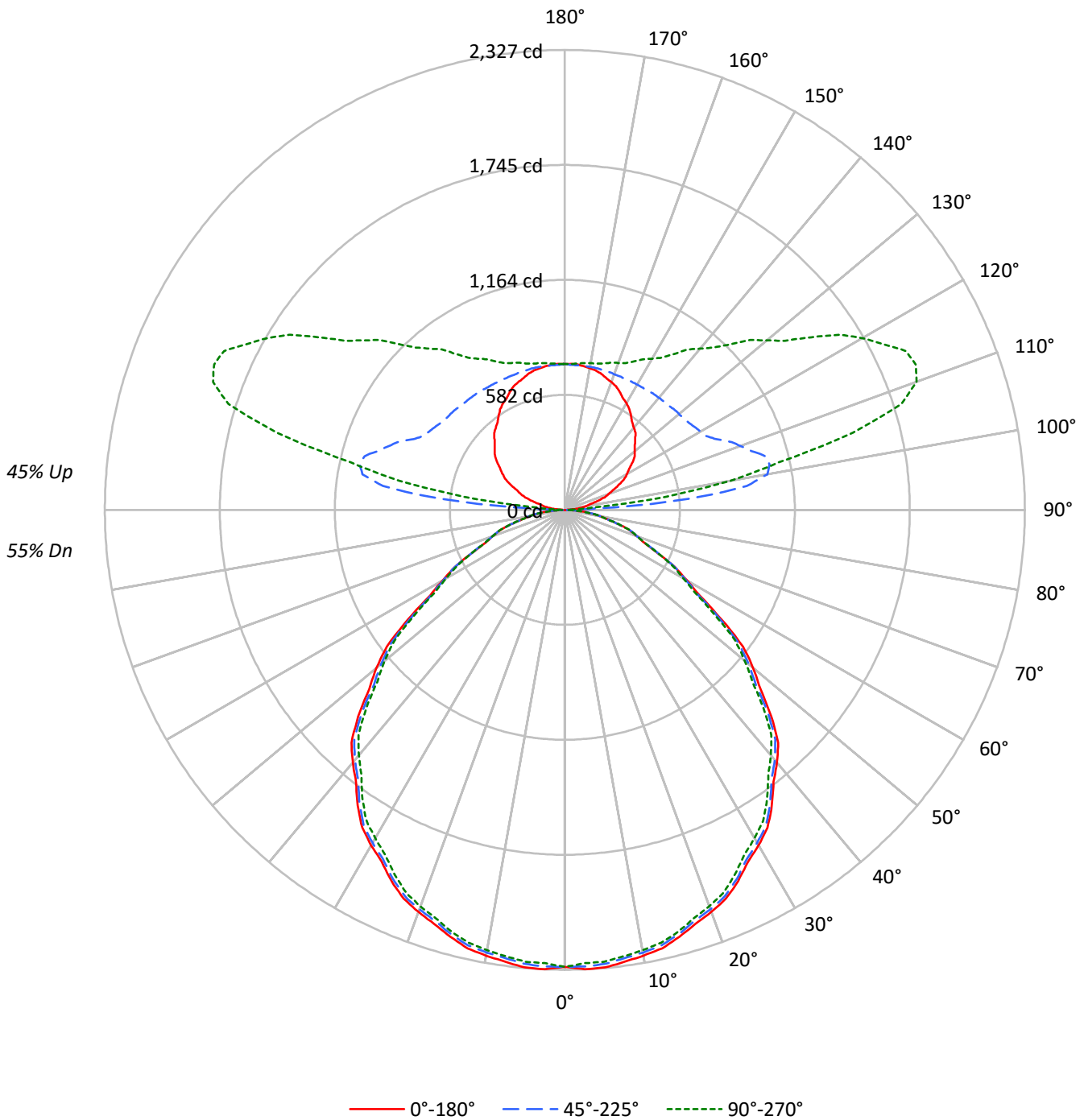
Lumens per Lamp: N/A
Luminaire Lumens: 10576.1 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	60	57	54	52	48	46	44	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	49	53	47	43	45	41	38	38	35	33	29
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	37	43	37	33	37	32	29	31	28	25	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14222	14222	14222
5°	14351	14240	14166
10°	14305	14206	14131
15°	14242	14154	14077
20°	14170	14079	13975
25°	14071	13976	13814
30°	13919	13820	13622
35°	13714	13594	13399
40°	13401	13257	13017
45°	12855	12629	12369
50°	11892	11606	11377
55°	10379	10145	9931
60°	8746	8673	8502
65°	7565	7594	7536
70°	6949	6985	6985
75°	6673	6673	6721
80°	6280	6347	6280
85°	5060	5625	5625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.7	2.1
10°-20°	625.6	5.9
20°-30°	943.6	8.9
30°-40°	1124.3	10.6
40°-50°	1108.5	10.5
50°-60°	847.2	8.0
60°-70°	524.3	5.0
70°-80°	297.8	2.8
80°-90°	92.1	0.9
90°-100°	345.5	3.3
100°-110°	953.9	9.0
110°-120°	983.8	9.3
120°-130°	790.5	7.5
130°-140°	621.3	5.9
140°-150°	476.5	4.5
150°-160°	342.5	3.2
160°-170°	209.4	2.0
170°-180°	70.6	0.7
0°-30°	1787.9	16.9
0°-40°	2912.3	27.5
0°-60°	4867.9	46.0
0°-90°	5782.1	54.7
90°-120°	2283.2	21.6
90°-150°	4171.5	39.4
90°-180°	4794.0	45.3
0°-180°	10576.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2312	2312	2312	2312	2312	
5°	2324	2299	2306	2298	2294	221
15°	2237	2213	2223	2215	2211	631
25°	2073	2048	2059	2037	2036	954
35°	1826	1805	1810	1786	1784	1140
45°	1478	1458	1452	1426	1422	1132
55°	968	952	946	930	926	867
65°	520	516	522	518	518	527
75°	281	281	281	283	283	297
85°	72	76	80	80	80	83
90°	2	5	9	11	12	6
95°	51	187	627	258	168	54
105°	170	262	1050	1602	1509	181
115°	305	368	845	1673	1903	299
125°	418	476	766	1297	1522	372
135°	503	557	745	1050	1184	389
145°	583	624	736	894	962	365
155°	658	680	730	802	828	303
165°	712	721	733	762	767	201
175°	738	739	734	745	742	70
180°	738	738	738	738	738	

TEST NUMBER: P564319

CATALOG NUMBER: SQ4-PR1-100U-125D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2312.3	2312.3	2312.3	2312.3	2312.3
2.5°	2326.7	2306.4	2312.3	2307.3	2296.4
5°	2324.3	2299.0	2306.3	2298.3	2294.4
7.5°	2306.3	2281.4	2288.8	2280.8	2278.5
10°	2290.4	2267.0	2274.5	2266.4	2262.5
12.5°	2272.9	2248.0	2257.0	2247.3	2243.4
15°	2236.6	2213.3	2222.7	2214.6	2210.7
17.5°	2196.8	2171.9	2181.3	2172.0	2166.9
20°	2164.9	2141.6	2151.0	2137.0	2135.1
22.5°	2129.9	2106.5	2115.9	2097.2	2096.8
25°	2073.3	2048.0	2059.4	2037.4	2035.5
27.5°	2006.0	1982.6	1992.1	1969.7	1967.4
30°	1959.8	1936.4	1945.9	1921.9	1918.0
32.5°	1907.2	1885.4	1893.3	1869.3	1867.0
35°	1826.4	1804.9	1810.4	1786.5	1784.5
37.5°	1734.3	1714.9	1718.0	1691.7	1689.7
40°	1669.0	1649.5	1651.1	1623.2	1621.2
42.5°	1597.3	1577.8	1576.2	1548.3	1546.3
45°	1477.8	1458.3	1451.9	1425.9	1422.0
47.5°	1341.6	1322.1	1310.1	1288.9	1286.2
50°	1242.8	1223.3	1212.9	1194.9	1189.0
52.5°	1136.0	1116.6	1107.8	1091.3	1085.5
55°	967.9	952.4	946.0	930.0	926.1
57.5°	808.2	797.7	795.9	780.3	778.7
60°	711.0	705.2	705.0	691.1	691.1
62.5°	628.2	623.9	627.0	617.8	616.2
65°	519.8	515.9	521.8	517.8	517.8
67.5°	434.2	434.2	437.8	436.2	436.2
70°	386.4	386.4	388.4	388.4	388.4
72.5°	343.4	341.8	346.9	346.9	345.4
75°	280.8	280.8	280.8	282.8	282.8
77.5°	218.7	219.1	220.7	220.2	218.7
80°	177.3	179.2	179.2	177.3	177.3
82.5°	135.8	137.8	137.8	137.4	135.8
85°	71.7	75.6	79.7	79.7	79.7
87.5°	21.2	27.9	33.8	34.0	32.6
90°	2.4	4.7	9.4	10.7	11.8
92.5°	21.2	88.2	157.7	57.6	44.9
95°	50.8	187.0	626.9	257.7	167.6
97.5°	84.1	209.4	928.6	714.9	517.8
100°	108.6	222.9	1040.0	1047.4	851.2
102.5°	132.2	238.2	1061.8	1294.1	1108.0
105°	170.0	262.3	1049.5	1602.2	1508.7
107.5°	210.1	292.3	990.9	1750.8	1784.9
110°	238.5	312.3	945.6	1782.7	1893.6



TEST NUMBER: P564319

CATALOG NUMBER: SQ4-PR1-100U-125D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	264.0	335.1	903.1	1757.5	1920.9
115°	304.6	368.1	845.3	1673.3	1903.0
117.5°	340.0	403.2	807.2	1554.8	1816.1
120°	363.6	425.9	792.1	1474.6	1737.7
122.5°	386.3	445.8	779.9	1399.6	1649.0
125°	417.9	475.6	766.2	1296.6	1521.7
127.5°	444.8	502.5	758.1	1209.5	1403.6
130°	462.8	520.5	754.4	1156.2	1332.8
132.5°	479.8	534.7	750.6	1111.4	1271.4
135°	502.9	557.2	744.9	1050.2	1184.1
137.5°	528.9	578.3	742.1	998.7	1113.0
140°	543.0	591.5	740.2	964.4	1064.8
142.5°	559.1	603.9	738.3	933.9	1022.3
145°	583.2	623.6	735.5	894.0	962.1
147.5°	606.3	641.6	732.9	860.4	913.3
150°	623.3	652.2	731.9	840.3	883.0
152.5°	636.5	663.5	731.0	823.2	858.5
155°	657.6	679.5	729.6	802.2	827.5
157.5°	676.9	693.8	729.8	786.9	804.2
160°	688.2	703.2	730.7	778.3	790.9
162.5°	697.7	710.8	731.7	770.6	780.6
165°	711.9	721.1	733.1	761.6	767.3
167.5°	722.7	728.3	734.3	756.0	757.9
170°	728.4	733.0	734.3	753.2	753.2
172.5°	733.1	735.9	734.3	749.4	748.5
175°	737.8	739.0	734.3	744.9	742.5
177.5°	739.7	738.8	734.0	740.6	738.8
180°	737.8	737.8	737.8	737.8	737.8

(END OF REPORT)