

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: P564031

Luminaire Tested: **SQ4-PR1-050U-125D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564031
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PR1-050U-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

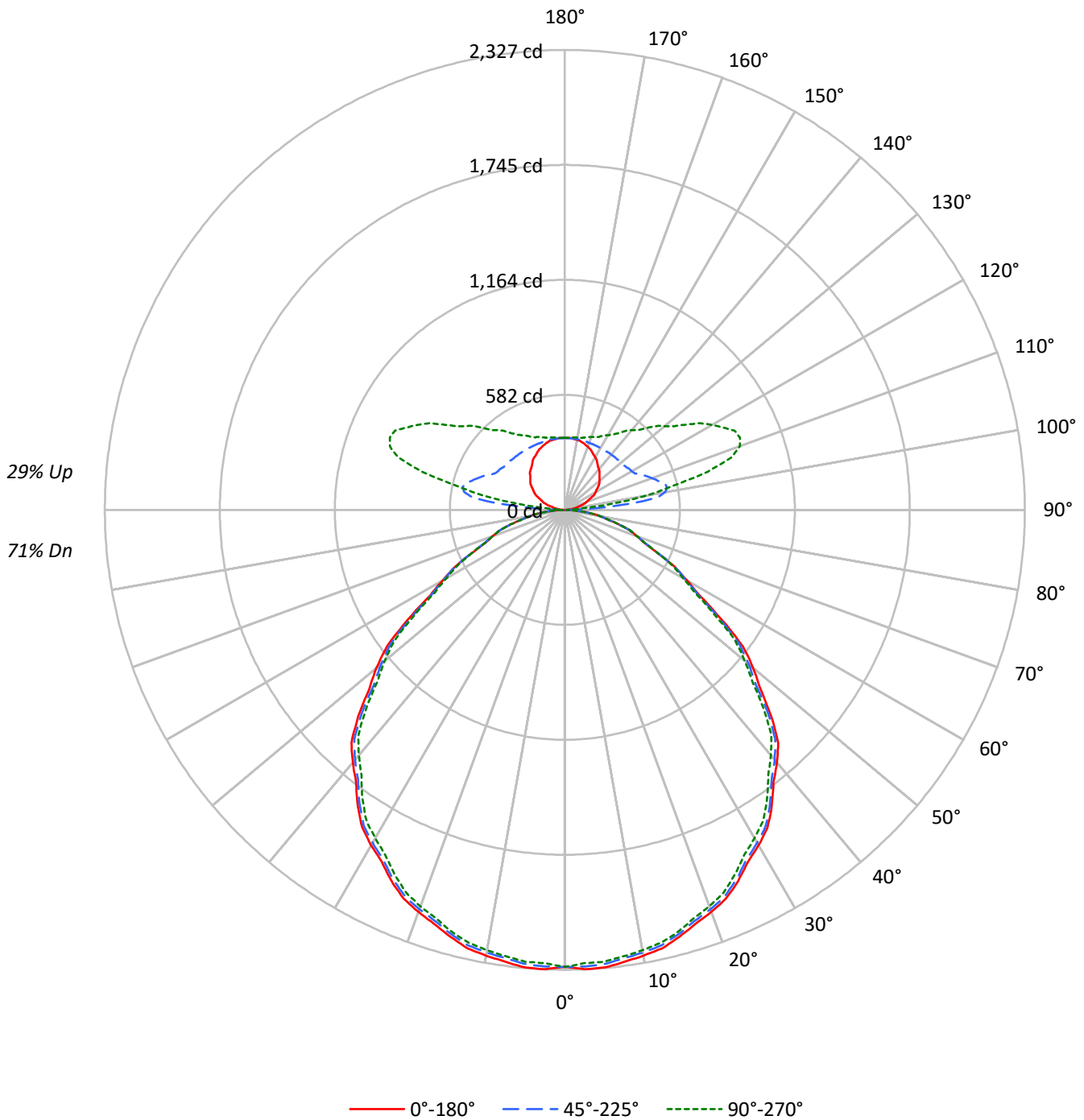
Lumens per Lamp: N/A
Luminaire Lumens: 8159.5 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 87.8
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	75	75	75	71	
1	103	99	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	64	64	64	60	
2	94	87	80	75	89	82	77	72	74	70	66	67	63	60	60	57	55	55	55	55	51	
3	86	77	69	63	81	73	66	61	66	60	56	59	55	52	53	50	47	47	47	47	44	
4	79	68	60	54	75	65	58	52	59	53	48	53	48	45	48	44	41	41	41	41	38	
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	43	39	36	36	36	36	33	
6	67	55	47	41	63	52	45	39	48	41	37	43	38	34	39	35	32	32	32	32	29	
7	62	50	42	36	59	48	40	35	43	37	33	40	34	30	36	32	28	28	28	28	26	
8	58	45	37	32	55	43	36	31	40	34	29	36	31	27	33	29	25	25	25	25	23	
9	54	41	34	29	51	40	33	28	37	30	26	33	28	25	31	26	23	23	23	23	21	
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	21	21	21	21	19	

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	2.7
10°-20°	625.6	7.7
20°-30°	943.6	11.6
30°-40°	1124.3	13.8
40°-50°	1108.5	13.6
50°-60°	847.2	10.4
60°-70°	524.3	6.4
70°-80°	297.8	3.6
80°-90°	92.0	1.1
90°-100°	174.8	2.1
100°-110°	474.9	5.8
110°-120°	488.2	6.0
120°-130°	390.4	4.8
130°-140°	306.7	3.8
140°-150°	235.2	2.9
150°-160°	169.1	2.1
160°-170°	103.4	1.3
170°-180°	34.8	0.4
0°-30°	1787.9	21.9
0°-40°	2912.3	35.7
0°-60°	4867.9	59.7
0°-90°	5781.9	70.9
90°-120°	1137.9	13.9
90°-150°	2070.2	25.4
90°-180°	2378.0	29.1
0°-180°	8159.5	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°	1	5	8	10	10	5
95°	26	96	304	132	89	27
105°	84	131	522	795	748	90
115°	150	182	418	832	947	148
125°	206	235	378	637	752	184
135°	248	276	368	519	585	192
145°	287	308	363	441	474	180
155°	324	336	361	396	408	150
165°	351	356	362	377	378	99
175°	364	365	363	368	366	35
180°	364	364	364	364	364	

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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°	20.9	27.9	33.5	33.9	32.4
90°	1.2	4.6	8.2	10.5	10.5
92.5°	10.5	47.9	83.1	35.7	30.2
95°	25.8	95.6	304.4	132.5	89.0
97.5°	42.6	105.6	466.7	363.1	255.0
100°	53.9	112.2	516.4	523.4	422.7
102.5°	65.1	118.9	529.5	647.4	558.5
105°	84.3	131.2	522.2	795.1	748.2
107.5°	104.2	145.7	492.0	871.4	884.5
110°	118.3	156.0	469.5	886.5	942.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	130.4	166.4	447.0	874.0	958.5
115°	149.9	181.9	418.0	831.6	947.2
117.5°	168.1	198.8	399.5	771.5	901.8
120°	180.3	210.1	391.1	731.2	860.6
122.5°	190.6	220.4	385.5	690.9	815.6
125°	206.1	234.7	378.2	637.2	751.7
127.5°	219.9	248.3	374.2	596.6	694.8
130°	228.3	255.8	372.3	571.1	659.2
132.5°	236.8	264.2	370.5	549.3	627.4
135°	248.2	275.7	367.7	519.0	585.4
137.5°	260.6	285.6	366.3	492.3	548.2
140°	268.1	292.2	365.3	475.4	525.7
142.5°	275.6	297.8	364.4	462.1	504.2
145°	286.9	307.5	363.0	441.0	474.2
147.5°	299.5	317.1	361.8	424.5	450.6
150°	307.9	322.8	361.8	415.0	435.6
152.5°	314.5	327.6	360.9	406.4	423.4
155°	324.3	335.8	360.6	396.0	407.5
157.5°	333.9	342.9	360.6	388.9	397.6
160°	339.6	347.6	360.6	384.2	391.1
162.5°	345.2	351.4	361.6	380.4	385.5
165°	351.3	355.8	361.8	377.1	378.2
167.5°	357.6	359.9	363.0	373.1	374.0
170°	359.5	361.8	363.0	371.2	371.2
172.5°	361.3	362.7	363.0	369.3	369.3
175°	364.1	365.3	363.0	367.6	366.5
177.5°	365.1	365.1	362.3	366.0	364.1
180°	364.1	364.1	364.1	364.1	364.1

(END OF REPORT)