

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: P563327

Luminaire Tested: **SQ4-PP3-050U-100D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563327
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-100D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

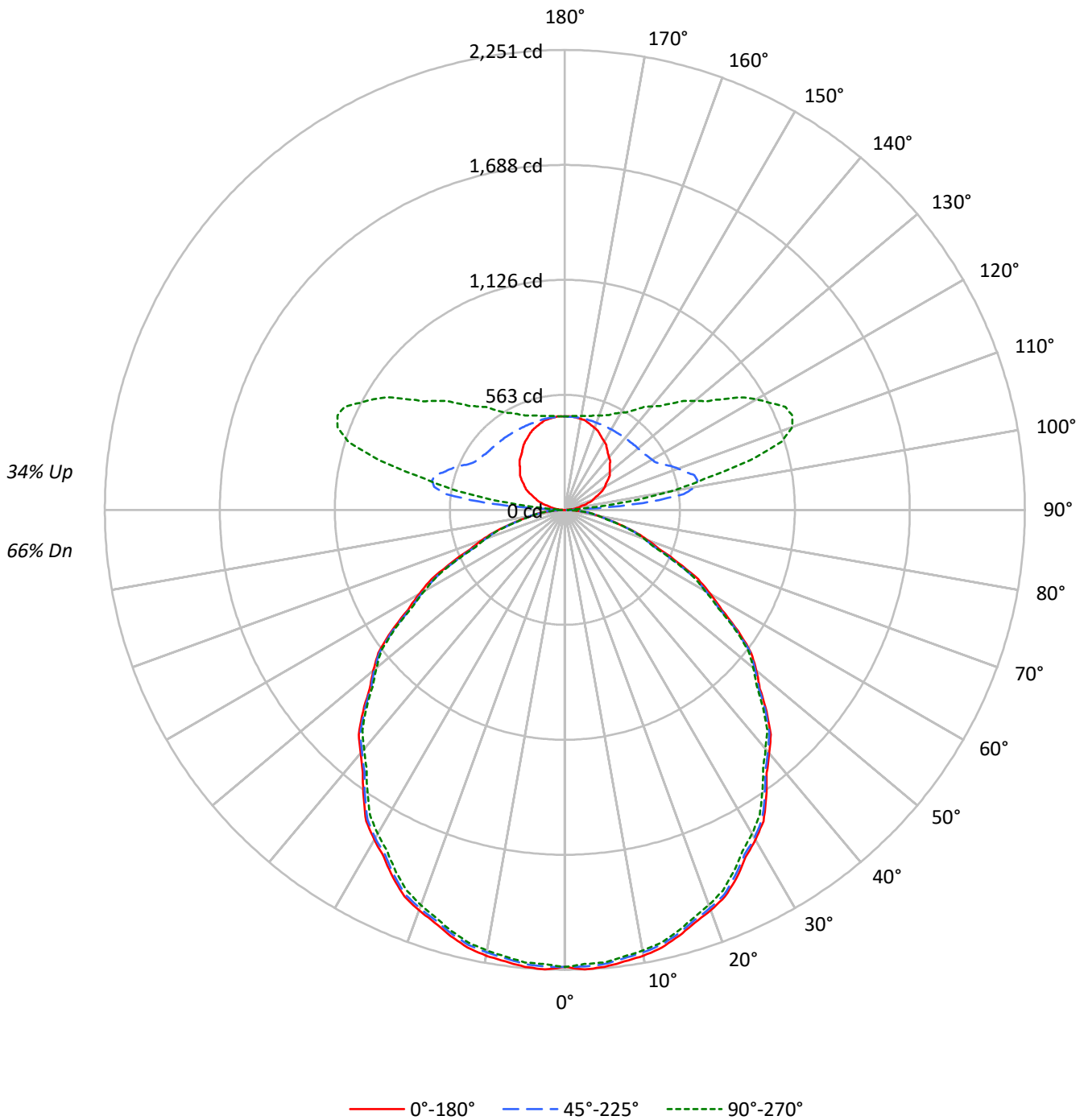
Lumens per Lamp: N/A
Luminaire Lumens: 8715.9 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.4
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	52	73	63	56	50	56	51	46	50	46	42	44	41	38	35
5	71	60	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30
6	66	54	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	21
9	53	40	33	27	50	38	31	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

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	13401	13267
30°	13244	13174	13007
35°	12898	12809	12647
40°	12485	12406	12265
45°	12144	12059	11940
50°	11709	11633	11520
55°	11102	10955	10871
60°	10107	9818	9769
65°	8904	8533	8504
70°	7688	7370	7370
75°	6616	6523	6431
80°	5834	5905	5763
85°	4566	4982	4982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	2.4
10°-20°	604.1	6.9
20°-30°	904.8	10.4
30°-40°	1061.3	12.2
40°-50°	1064.6	12.2
50°-60°	908.2	10.4
60°-70°	592.3	6.8
70°-80°	297.2	3.4
80°-90°	84.0	1.0
90°-100°	219.7	2.5
100°-110°	596.8	6.8
110°-120°	613.6	7.0
120°-130°	490.6	5.6
130°-140°	385.5	4.4
140°-150°	295.6	3.4
150°-160°	212.5	2.4
160°-170°	130.0	1.5
170°-180°	43.8	0.5
0°-30°	1720.4	19.7
0°-40°	2781.7	31.9
0°-60°	4754.6	54.6
0°-90°	5728.0	65.7
90°-120°	1430.0	16.4
90°-150°	2601.6	29.8
90°-180°	2988.0	34.3
0°-180°	8715.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2237	2237	2237	2237	2237	
5°	2245	2224	2231	2224	2224	213
15°	2159	2138	2147	2139	2135	609
25°	1988	1965	1975	1957	1955	914
35°	1718	1700	1706	1686	1684	1073
45°	1396	1386	1386	1373	1373	1075
55°	1035	1032	1022	1016	1014	920
65°	612	600	586	582	584	611
75°	278	278	274	272	271	302
85°	65	70	71	71	71	76
90°	2	6	10	13	13	5
95°	32	120	383	166	112	34
105°	106	165	656	999	940	113
115°	188	229	525	1045	1190	186
125°	259	295	475	801	945	231
135°	312	346	462	652	736	241
145°	360	386	456	554	596	226
155°	408	422	453	498	512	188
165°	441	447	455	474	475	125
175°	458	459	456	462	461	43
180°	458	458	458	458	458	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2237.3	2237.3	2237.3	2237.3	2237.3
2.5°	2251.4	2233.0	2237.3	2234.0	2224.8
5°	2245.1	2224.1	2231.4	2223.6	2223.6
7.5°	2229.8	2206.8	2214.2	2206.3	2205.9
10°	2215.7	2192.7	2200.0	2192.2	2190.2
12.5°	2195.3	2172.3	2181.2	2171.8	2171.4
15°	2158.9	2137.8	2147.1	2139.2	2135.3
17.5°	2117.7	2094.7	2105.9	2094.9	2093.4
20°	2086.3	2063.3	2074.6	2058.9	2058.9
22.5°	2048.7	2025.7	2038.5	2018.1	2018.1
25°	1988.3	1965.3	1974.6	1956.9	1954.9
27.5°	1916.5	1893.9	1903.6	1883.6	1883.2
30°	1864.7	1843.7	1854.9	1833.3	1831.4
32.5°	1808.3	1788.7	1796.9	1775.3	1773.4
35°	1717.7	1700.4	1705.9	1686.3	1684.3
37.5°	1622.4	1604.7	1611.0	1594.1	1593.4
40°	1554.9	1543.4	1545.1	1531.3	1527.5
42.5°	1492.2	1479.2	1480.8	1467.1	1466.3
45°	1396.1	1386.5	1386.3	1372.6	1372.6
47.5°	1294.1	1286.9	1284.7	1273.4	1273.0
50°	1223.6	1217.8	1215.7	1205.9	1203.9
52.5°	1149.8	1147.1	1140.4	1132.2	1131.8
55°	1035.3	1031.5	1021.6	1015.7	1013.7
57.5°	911.0	903.3	892.2	883.6	885.1
60°	821.6	813.9	798.1	794.1	794.1
62.5°	735.3	726.1	710.2	704.8	707.9
65°	611.8	600.3	586.3	582.4	584.3
67.5°	499.6	489.3	474.1	474.1	472.6
70°	427.5	421.7	409.8	409.8	409.8
72.5°	363.1	360.5	351.8	351.7	350.2
75°	278.4	278.4	274.5	272.5	270.6
77.5°	208.6	209.4	207.5	205.4	202.0
80°	164.7	168.5	166.7	164.7	162.7
82.5°	123.9	127.8	127.5	123.9	123.5
85°	64.7	70.5	70.6	70.6	70.6
87.5°	17.5	24.5	27.2	27.8	29.3
90°	1.5	5.8	10.3	13.2	13.2
92.5°	13.2	60.1	104.5	44.9	38.0
95°	32.4	120.1	382.6	166.5	111.8
97.5°	53.6	132.7	586.5	456.3	320.5
100°	67.7	141.1	648.9	657.8	531.2
102.5°	81.8	149.4	665.4	813.5	701.9
105°	105.9	164.9	656.3	999.2	940.2
107.5°	131.0	183.0	618.3	1095.1	1111.5
110°	148.6	196.1	590.0	1114.0	1184.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.9	209.1	561.8	1098.3	1204.5
115°	188.3	228.6	525.3	1045.1	1190.4
117.5°	211.3	249.9	502.0	969.6	1133.3
120°	226.6	264.0	491.5	918.9	1081.5
122.5°	239.5	277.0	484.4	868.2	1025.0
125°	259.0	294.9	475.3	800.8	944.7
127.5°	276.3	312.0	470.3	749.7	873.1
130°	286.9	321.5	467.9	717.6	828.4
132.5°	297.5	332.1	465.6	690.3	788.4
135°	311.9	346.5	462.0	652.3	735.7
137.5°	327.5	358.9	460.3	618.7	688.9
140°	337.0	367.2	459.1	597.4	660.7
142.5°	346.4	374.3	457.9	580.6	633.6
145°	360.5	386.4	456.1	554.2	595.9
147.5°	376.4	398.5	454.7	533.4	566.2
150°	387.0	405.7	454.7	521.5	547.4
152.5°	395.2	411.6	453.5	510.8	532.1
155°	407.6	422.0	453.2	497.7	512.1
157.5°	419.6	430.9	453.2	488.8	499.7
160°	426.7	436.8	453.2	482.8	491.5
162.5°	433.8	441.5	454.4	478.1	484.4
165°	441.4	447.2	454.7	473.8	475.3
167.5°	449.4	452.2	456.1	468.8	470.0
170°	451.7	454.6	456.1	466.4	466.4
172.5°	454.1	455.8	456.1	464.1	464.1
175°	457.6	459.1	456.1	462.0	460.6
177.5°	458.8	458.8	455.3	459.9	457.6
180°	457.6	457.6	457.6	457.6	457.6

(END OF REPORT)