

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: P563231

Luminaire Tested: **SQ4-PP3-025U-100D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563231
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-100D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

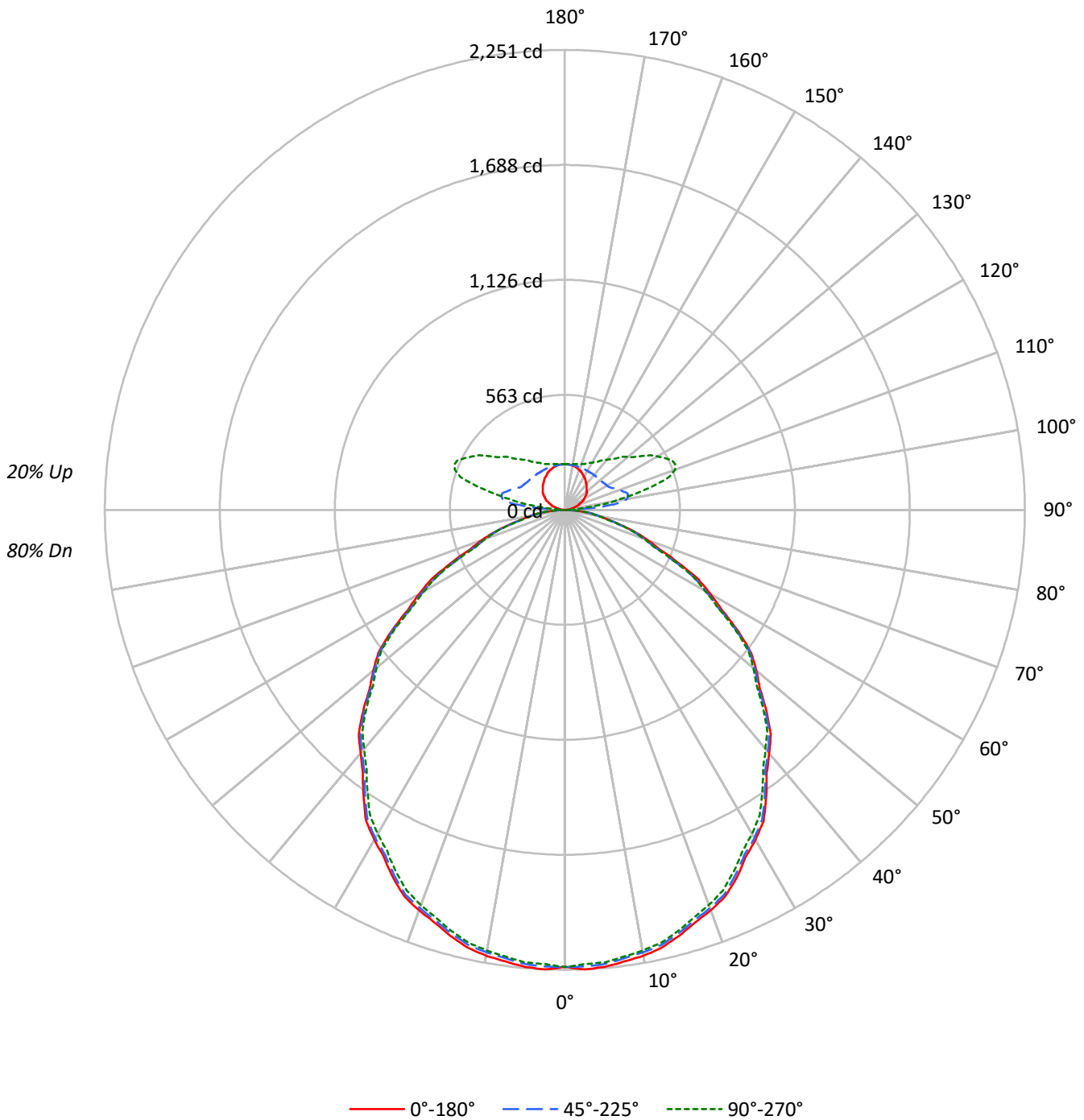
Lumens per Lamp: N/A
Luminaire Lumens: 7176.3 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 63.5
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	100	96	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	76	91	85	79	74	78	73	69	72	68	65	66	63	60	57
3	88	78	70	64	83	75	68	62	69	63	59	64	59	55	59	55	52	49
4	80	69	61	55	76	66	59	53	61	55	50	57	52	47	52	48	45	42
5	74	62	53	47	70	59	52	46	55	49	44	51	46	41	47	43	39	37
6	68	56	47	41	65	54	46	40	50	43	38	46	41	36	43	38	35	32
7	63	50	42	36	60	49	41	35	45	39	34	42	37	32	39	34	31	29
8	59	46	38	32	56	44	37	32	41	35	30	39	33	29	36	31	28	26
9	55	42	34	29	52	41	33	28	38	32	27	36	30	26	33	29	25	23
10	51	39	31	26	49	38	30	26	35	29	25	33	28	24	31	26	23	21

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	2.9
10°-20°	604.1	8.4
20°-30°	904.8	12.6
30°-40°	1061.3	14.8
40°-50°	1064.6	14.8
50°-60°	908.2	12.7
60°-70°	592.3	8.3
70°-80°	297.2	4.1
80°-90°	83.4	1.2
90°-100°	108.9	1.5
100°-110°	286.4	4.0
110°-120°	297.0	4.1
120°-130°	238.2	3.3
130°-140°	186.9	2.6
140°-150°	143.5	2.0
150°-160°	103.3	1.4
160°-170°	63.2	0.9
170°-180°	21.4	0.3
0°-30°	1720.4	24.0
0°-40°	2781.7	38.8
0°-60°	4754.6	66.3
0°-90°	5727.5	79.8
90°-120°	692.3	9.6
90°-150°	1261.0	17.6
90°-180°	1449.0	20.2
0°-180°	7176.3	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°	1	4	12	6	6	4
95°	14	56	188	97	66	16
105°	52	78	317	481	448	55
115°	92	111	254	506	578	91
125°	128	143	231	390	460	113
135°	152	167	224	315	357	118
145°	176	188	221	268	290	110
155°	199	205	221	242	249	92
165°	215	218	221	229	232	61
175°	224	224	222	225	225	21
180°	224	224	224	224	224	

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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	24.2	27.4	26.3	27.8
90°	1.4	4.2	11.5	5.7	5.7
92.5°	6.0	29.0	64.2	28.4	18.3
95°	14.3	56.4	187.7	96.7	65.9
97.5°	24.9	61.9	280.9	223.3	164.5
100°	33.0	66.6	309.5	313.7	243.6
102.5°	39.8	71.2	317.5	390.7	330.7
105°	51.6	78.2	316.7	480.7	448.5
107.5°	63.6	88.3	298.6	527.5	535.3
110°	71.6	94.1	283.7	539.5	573.2



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CATALOG NUMBER: SQ4-PP3-025U-100D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	79.7	101.0	270.0	531.9	583.5
115°	91.7	111.3	253.6	506.0	577.5
117.5°	103.5	121.4	242.5	470.1	549.4
120°	110.3	127.1	237.9	446.0	523.0
122.5°	117.2	134.0	234.4	421.9	497.8
125°	127.5	142.9	230.7	389.9	460.0
127.5°	135.8	151.5	227.5	364.2	423.3
130°	140.4	157.2	226.4	348.0	402.7
132.5°	145.0	161.8	225.3	334.1	383.2
135°	151.9	167.3	223.5	314.8	356.8
137.5°	159.1	174.2	223.3	300.3	334.7
140°	164.8	178.8	222.1	288.8	321.0
142.5°	169.4	182.3	222.1	280.6	308.4
145°	176.3	187.5	220.7	268.4	289.5
147.5°	183.1	194.1	220.7	258.3	275.7
150°	187.7	197.5	220.7	252.5	266.5
152.5°	192.3	199.9	220.7	247.9	258.5
155°	199.2	204.8	220.7	242.3	249.3
157.5°	204.3	209.7	220.7	237.4	242.5
160°	207.8	212.0	220.7	235.1	237.9
162.5°	211.2	214.3	220.7	232.8	235.6
165°	214.9	217.7	220.7	229.3	232.1
167.5°	218.4	219.8	222.1	227.9	229.0
170°	220.7	222.1	222.1	227.8	227.8
172.5°	221.8	222.1	222.1	226.7	225.5
175°	223.5	223.5	222.1	225.0	225.0
177.5°	223.5	223.5	222.4	224.7	223.5
180°	223.5	223.5	223.5	223.5	223.5

(END OF REPORT)