

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: P563320

Luminaire Tested: **SQ4-PP3-050U-075D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563320
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-075D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

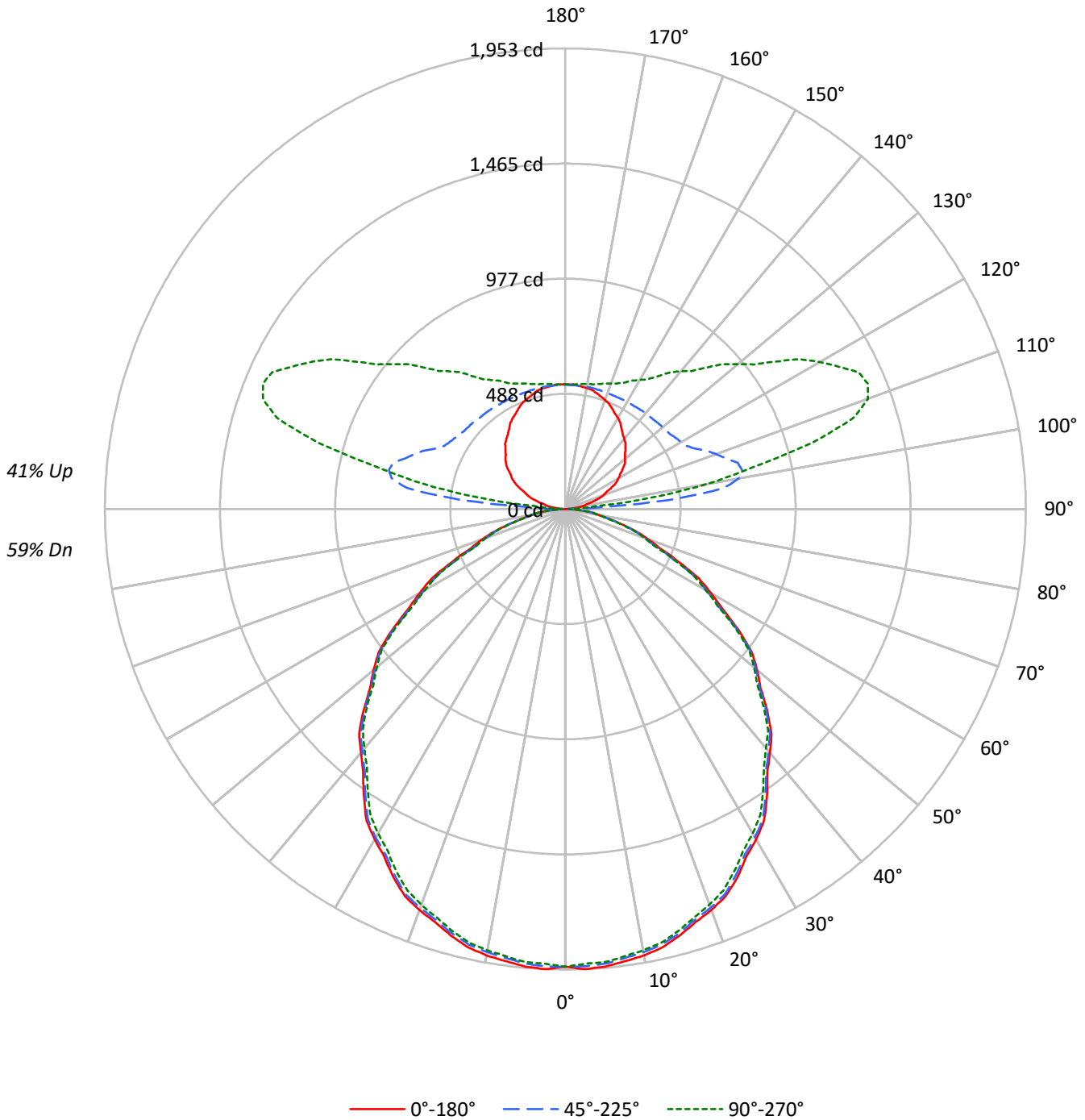
Lumens per Lamp: N/A
Luminaire Lumens: 8413.4 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 78.1
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	90	86	83	78	75	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	64	61	59	56	54	51	49	47	42
3	83	74	67	61	78	69	63	58	61	56	51	53	49	46	45	42	40	36
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31
5	70	58	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27
6	65	53	44	38	60	49	42	37	44	38	33	38	33	30	33	29	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	26	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8953	8953	8953
5°	9019	8964	8932
10°	9004	8940	8900
15°	8944	8895	8847
20°	8885	8835	8768
25°	8779	8719	8632
30°	8617	8571	8463
35°	8392	8334	8229
40°	8123	8072	7980
45°	7901	7846	7768
50°	7617	7569	7495
55°	7223	7127	7073
60°	6576	6387	6356
65°	5793	5552	5533
70°	5001	4795	4795
75°	4304	4244	4183
80°	3796	3841	3751
85°	2969	3239	3239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	2.2
10°-20°	524.0	6.2
20°-30°	784.9	9.3
30°-40°	920.7	10.9
40°-50°	923.5	11.0
50°-60°	787.9	9.4
60°-70°	513.8	6.1
70°-80°	257.8	3.1
80°-90°	73.4	0.9
90°-100°	253.2	3.0
100°-110°	687.8	8.2
110°-120°	707.2	8.4
120°-130°	565.4	6.7
130°-140°	444.3	5.3
140°-150°	340.7	4.0
150°-160°	245.0	2.9
160°-170°	149.8	1.8
170°-180°	50.5	0.6
0°-30°	1492.5	17.7
0°-40°	2413.1	28.7
0°-60°	4124.5	49.0
0°-90°	4969.5	59.1
90°-120°	1648.3	19.6
90°-150°	2998.6	35.6
90°-180°	3444.0	40.9
0°-180°	8413.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1948	1929	1936	1929	1929	185
15°	1873	1854	1863	1856	1852	528
25°	1725	1705	1713	1698	1696	793
35°	1490	1475	1480	1463	1461	931
45°	1211	1203	1203	1191	1191	933
55°	898	895	886	881	879	798
65°	531	521	509	505	507	530
75°	242	242	238	236	235	262
85°	56	61	61	61	61	66
90°	2	7	12	15	15	5
95°	37	138	441	192	129	40
105°	122	190	756	1152	1084	130
115°	217	264	606	1205	1372	214
125°	298	340	548	923	1089	266
135°	360	399	532	752	848	278
145°	416	445	526	639	687	261
155°	470	486	522	574	590	217
165°	509	515	524	546	548	144
175°	528	529	526	532	531	50
180°	528	528	528	528	528	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1940.8	1940.8	1940.8	1940.8	1940.8
2.5°	1953.1	1937.1	1940.8	1937.9	1930.0
5°	1947.6	1929.4	1935.7	1928.9	1928.9
7.5°	1934.4	1914.4	1920.8	1914.0	1913.6
10°	1922.1	1902.2	1908.5	1901.7	1900.0
12.5°	1904.4	1884.5	1892.2	1884.0	1883.7
15°	1872.8	1854.5	1862.6	1855.7	1852.4
17.5°	1837.1	1817.1	1826.9	1817.3	1816.0
20°	1809.9	1789.9	1799.7	1786.1	1786.1
22.5°	1777.2	1757.2	1768.4	1750.7	1750.7
25°	1724.8	1704.9	1712.9	1697.6	1695.9
27.5°	1662.6	1642.9	1651.3	1634.0	1633.6
30°	1617.7	1599.4	1609.1	1590.4	1588.7
32.5°	1568.7	1551.7	1558.8	1540.0	1538.4
35°	1490.1	1475.1	1479.9	1462.8	1461.2
37.5°	1407.4	1392.1	1397.5	1382.9	1382.2
40°	1348.9	1338.9	1340.4	1328.4	1325.1
42.5°	1294.5	1283.2	1284.6	1272.7	1272.0
45°	1211.1	1202.8	1202.6	1190.7	1190.7
47.5°	1122.7	1116.3	1114.5	1104.6	1104.3
50°	1061.4	1056.4	1054.6	1046.1	1044.4
52.5°	997.5	995.1	989.3	982.2	981.8
55°	898.1	894.8	886.2	881.1	879.4
57.5°	790.3	783.6	774.0	766.5	767.8
60°	712.7	706.1	692.3	688.9	688.9
62.5°	637.9	629.9	616.1	611.4	614.1
65°	530.7	520.7	508.6	505.2	506.9
67.5°	433.4	424.4	411.3	411.3	409.9
70°	370.8	365.8	355.5	355.5	355.5
72.5°	315.0	312.7	305.2	305.1	303.8
75°	241.5	241.5	238.1	236.4	234.7
77.5°	181.0	181.7	180.0	178.2	175.2
80°	142.9	146.2	144.6	142.8	141.2
82.5°	107.5	110.8	110.6	107.5	107.2
85°	56.1	61.1	61.2	61.2	61.2
87.5°	15.3	21.6	24.1	24.9	26.2
90°	1.7	6.7	11.9	15.3	15.3
92.5°	15.3	69.3	120.4	51.7	43.8
95°	37.3	138.5	441.0	191.9	128.9
97.5°	61.7	152.9	676.0	525.9	369.4
100°	78.0	162.6	747.9	758.2	612.3
102.5°	94.3	172.2	766.9	937.7	809.0
105°	122.1	190.1	756.4	1151.7	1083.8
107.5°	150.9	211.0	712.7	1262.3	1281.2
110°	171.3	226.0	680.1	1284.0	1365.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.9	241.0	647.5	1266.0	1388.4
115°	217.1	263.5	605.5	1204.6	1372.1
117.5°	243.5	288.0	578.7	1117.6	1306.3
120°	261.2	304.3	566.5	1059.2	1246.6
122.5°	276.1	319.2	558.3	1000.7	1181.4
125°	298.5	340.0	547.8	923.0	1088.8
127.5°	318.5	359.6	542.0	864.1	1006.4
130°	330.7	370.5	539.3	827.2	954.9
132.5°	342.9	382.7	536.6	795.6	908.7
135°	359.6	399.4	532.5	751.8	848.0
137.5°	377.5	413.7	530.5	713.1	794.1
140°	388.4	423.2	529.2	688.5	761.5
142.5°	399.2	431.4	527.8	669.3	730.3
145°	415.5	445.4	525.8	638.8	686.9
147.5°	433.8	459.4	524.1	614.8	652.6
150°	446.1	467.6	524.1	601.1	630.9
152.5°	455.6	474.5	522.7	588.7	613.3
155°	469.8	486.4	522.4	573.6	590.2
157.5°	483.7	496.6	522.4	563.4	576.0
160°	491.8	503.5	522.4	556.5	566.5
162.5°	500.0	508.9	523.7	551.0	558.3
165°	508.8	515.4	524.1	546.2	547.8
167.5°	518.0	521.3	525.8	540.4	541.7
170°	520.7	524.0	525.8	537.6	537.6
172.5°	523.4	525.4	525.8	534.9	534.9
175°	527.5	529.1	525.8	532.5	530.9
177.5°	528.8	528.8	524.7	530.1	527.5
180°	527.5	527.5	527.5	527.5	527.5

(END OF REPORT)