

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: P519186

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519186
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-075U-050D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

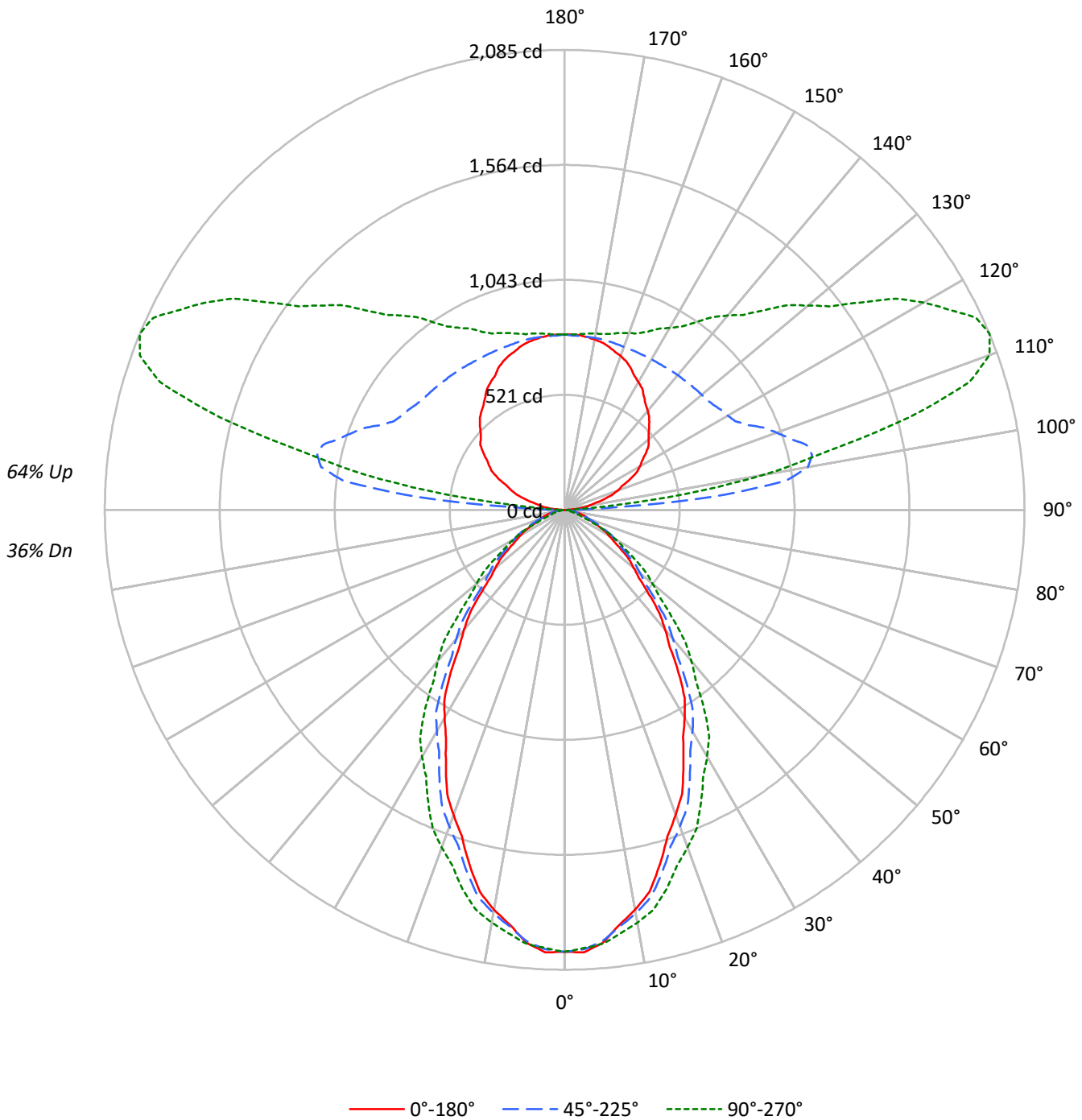
Lumens per Lamp: N/A
Luminaire Lumens: 8097.2 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 71.8
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	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36
1	95	92	88	85	86	83	80	78	67	65	64	53	52	50	40	39	38	32
2	88	81	75	71	79	74	69	65	60	57	54	47	45	43	36	35	33	28
3	80	72	65	60	73	66	60	55	54	50	46	43	40	38	33	31	29	25
4	74	64	57	51	67	59	52	48	48	44	40	39	36	33	30	28	26	22
5	68	58	50	45	62	53	46	41	44	39	35	35	32	29	27	25	23	20
6	63	52	44	39	57	48	41	36	40	35	31	32	29	26	25	23	21	18
7	58	47	40	35	53	43	37	32	36	31	28	29	26	23	23	21	19	16
8	54	43	36	31	49	40	33	29	33	28	25	27	24	21	21	19	17	15
9	51	39	32	28	46	36	30	26	31	26	23	25	22	19	20	18	16	14
10	47	36	29	25	43	33	27	23	28	24	20	23	20	18	19	16	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9241	9241	9241
5°	9126	9093	9146
10°	8622	8700	8902
15°	7959	8144	8509
20°	7228	7500	7996
25°	6483	6836	7449
30°	5797	6176	6883
35°	5069	5435	6212
40°	4267	4605	5378
45°	3521	3825	4490
50°	2940	3204	3741
55°	2496	2750	3089
60°	2133	2384	2465
65°	1698	2005	1593
70°	1505	1565	972
75°	1394	1269	595
80°	1283	1166	513
85°	1164	1069	418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.7	2.3
10°-20°	477.9	5.9
20°-30°	619.0	7.6
30°-40°	606.2	7.5
40°-50°	464.0	5.7
50°-60°	309.2	3.8
60°-70°	168.7	2.1
70°-80°	70.3	0.9
80°-90°	21.9	0.3
90°-100°	374.7	4.6
100°-110°	1031.0	12.7
110°-120°	1064.2	13.1
120°-130°	852.6	10.5
130°-140°	669.7	8.3
140°-150°	513.2	6.3
150°-160°	369.0	4.6
160°-170°	225.6	2.8
170°-180°	76.1	0.9
0°-30°	1280.7	15.8
0°-40°	1886.9	23.3
0°-60°	2660.1	32.9
0°-90°	2921.0	36.1
90°-120°	2470.0	30.5
90°-150°	4505.5	55.6
90°-180°	5176.0	63.9
0°-180°	8097.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2003	2003	2003	2003	2003	
5°	1971	1951	1964	1968	1975	183
15°	1666	1660	1705	1752	1782	465
25°	1274	1277	1343	1402	1464	586
35°	900	904	965	1030	1103	560
45°	540	550	586	631	688	421
55°	310	323	342	355	384	281
65°	156	168	184	160	146	162
75°	78	78	71	49	33	84
85°	22	22	20	13	8	24
90°	2	7	12	15	15	5
95°	56	205	663	283	181	59
105°	184	283	1136	1730	1614	194
115°	326	397	911	1814	2059	322
125°	450	512	827	1398	1638	401
135°	543	602	803	1131	1280	419
145°	627	670	791	964	1038	393
155°	710	733	786	866	891	326
165°	768	777	790	822	827	216
175°	794	796	791	801	800	75
180°	794	794	794	794	794	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2003.2	2003.2	2003.2	2003.2	2003.2
2.5°	2008.1	1990.2	1994.7	1994.6	1989.1
5°	1970.7	1950.9	1963.6	1968.2	1975.1
7.5°	1897.5	1882.6	1905.8	1923.0	1936.9
10°	1840.6	1827.7	1857.3	1882.3	1900.3
12.5°	1774.5	1763.6	1800.3	1833.9	1857.5
15°	1666.5	1660.5	1705.2	1751.6	1781.7
17.5°	1551.0	1548.1	1599.4	1653.5	1692.0
20°	1472.3	1471.4	1527.7	1584.1	1628.7
22.5°	1392.8	1394.7	1453.8	1512.5	1563.3
25°	1273.6	1277.1	1343.1	1401.6	1463.5
27.5°	1163.4	1165.0	1233.2	1295.0	1361.0
30°	1088.2	1092.5	1159.4	1223.3	1292.1
32.5°	1012.9	1017.9	1083.4	1149.5	1219.7
35°	900.1	904.4	965.1	1030.1	1103.1
37.5°	783.7	789.5	843.5	904.9	976.7
40°	708.5	717.0	764.7	822.6	893.0
42.5°	636.0	646.7	690.9	745.8	809.4
45°	539.7	550.0	586.3	630.7	688.2
47.5°	456.7	468.6	496.4	534.7	583.8
50°	409.6	420.8	446.5	474.8	521.2
52.5°	368.1	379.3	402.2	424.0	463.6
55°	310.3	323.2	341.9	354.9	384.1
57.5°	262.8	275.2	290.1	295.9	313.6
60°	231.2	244.9	258.4	257.8	267.2
62.5°	202.3	214.0	227.5	218.2	218.7
65°	155.6	168.5	183.7	160.5	145.9
67.5°	125.7	128.4	144.2	111.9	94.6
70°	111.6	111.6	116.0	86.7	72.1
72.5°	98.3	98.3	94.2	70.5	55.2
75°	78.2	78.2	71.2	48.9	33.4
77.5°	60.3	59.6	54.5	36.5	24.3
80°	48.3	48.3	43.9	28.8	19.3
82.5°	37.8	37.8	34.1	22.5	14.4
85°	22.0	22.0	20.2	13.1	7.9
87.5°	8.1	9.1	9.4	7.2	6.6
90°	1.7	6.6	11.8	15.2	15.2
92.5°	23.3	99.7	172.8	66.3	54.4
95°	55.8	204.6	662.7	283.4	180.9
97.5°	90.9	226.8	1011.3	779.2	549.8
100°	116.6	240.6	1120.8	1131.3	923.0
102.5°	141.0	257.0	1149.2	1403.5	1212.4
105°	184.3	283.4	1136.0	1730.2	1614.4
107.5°	225.5	316.1	1071.5	1890.1	1924.5
110°	255.3	337.9	1022.8	1929.9	2048.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	282.3	362.3	974.1	1904.3	2085.4
115°	326.3	397.3	911.2	1814.4	2059.1
117.5°	368.2	433.7	871.3	1688.4	1965.1
120°	393.9	456.7	853.7	1593.9	1879.9
122.5°	416.9	479.7	841.5	1511.1	1782.5
125°	449.7	512.5	826.7	1398.4	1638.1
127.5°	480.8	540.6	816.9	1304.4	1514.7
130°	497.0	558.2	811.4	1248.6	1440.3
132.5°	515.9	577.1	807.4	1199.5	1372.7
135°	542.7	602.2	803.0	1131.0	1279.7
137.5°	567.7	622.9	799.3	1075.6	1198.2
140°	586.6	637.9	797.9	1038.8	1149.6
142.5°	602.8	650.1	795.2	1006.0	1100.9
145°	627.2	670.2	791.2	963.6	1038.0
147.5°	653.2	690.2	789.1	926.1	985.6
150°	669.4	702.5	787.8	905.5	951.8
152.5°	684.3	714.7	786.4	887.7	926.1
155°	710.0	733.2	786.1	866.1	890.9
157.5°	728.6	747.5	786.1	848.4	865.5
160°	742.1	757.0	786.1	838.8	852.0
162.5°	753.0	765.2	787.4	830.6	841.2
165°	767.5	777.4	789.5	821.7	826.7
167.5°	777.6	785.2	791.2	814.2	815.5
170°	784.4	789.4	791.2	811.4	811.4
172.5°	789.8	792.1	791.2	807.4	806.0
175°	794.5	796.2	791.2	801.3	799.6
177.5°	795.9	795.9	790.5	798.5	795.9
180°	794.5	794.5	794.5	794.5	794.5

(END OF REPORT)