

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: P563400

Luminaire Tested: **SQ4-PP3-075U-075D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563400
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-075D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

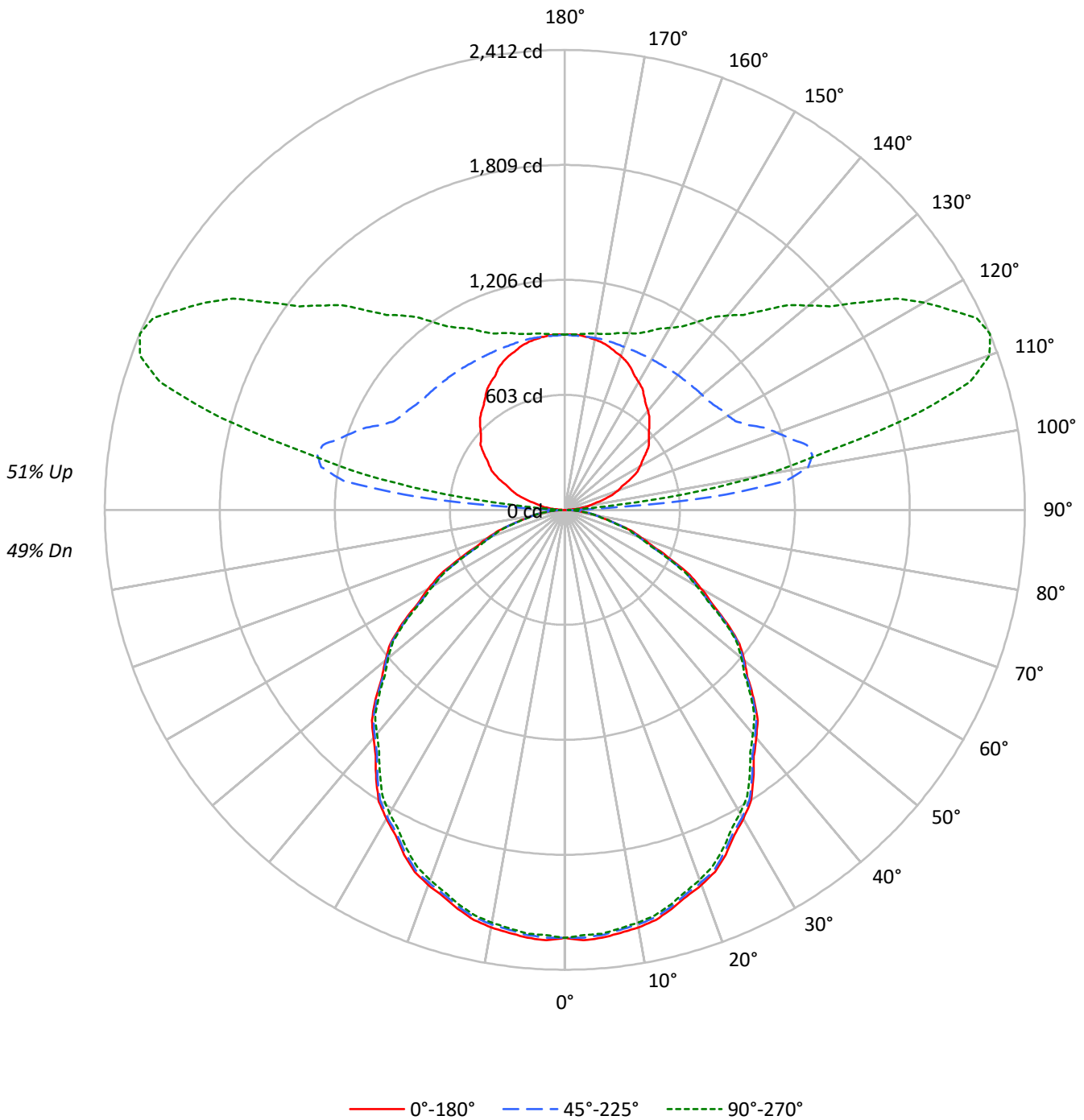
Lumens per Lamp: N/A
Luminaire Lumens: 11736.1 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 91
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	76	71	82	76	70	66	64	60	57	53	51	48	43	42	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10357	10357	10357
5°	10433	10369	10333
10°	10415	10341	10296
15°	10346	10290	10234
20°	10278	10220	10142
25°	10156	10085	9986
30°	9967	9915	9790
35°	9707	9641	9518
40°	9397	9337	9230
45°	9140	9075	8986
50°	8812	8755	8670
55°	8356	8245	8182
60°	7606	7388	7352
65°	6701	6422	6401
70°	5785	5546	5546
75°	4980	4910	4839
80°	4391	4444	4338
85°	3435	3747	3747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.3	1.8
10°-20°	606.2	5.2
20°-30°	908.0	7.7
30°-40°	1065.0	9.1
40°-50°	1068.3	9.1
50°-60°	911.4	7.8
60°-70°	594.4	5.1
70°-80°	298.2	2.5
80°-90°	84.9	0.7
90°-100°	433.5	3.7
100°-110°	1192.6	10.2
110°-120°	1231.0	10.5
120°-130°	986.3	8.4
130°-140°	774.7	6.6
140°-150°	593.7	5.1
150°-160°	426.8	3.6
160°-170°	261.0	2.2
170°-180°	88.0	0.7
0°-30°	1726.4	14.7
0°-40°	2791.4	23.8
0°-60°	4771.1	40.7
0°-90°	5748.5	49.0
90°-120°	2857.1	24.3
90°-150°	5211.7	44.4
90°-180°	5988.0	51.0
0°-180°	11736.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2245	2245	2245	2245	2245	
5°	2253	2232	2239	2231	2231	214
15°	2166	2145	2155	2147	2143	611
25°	1995	1972	1981	1964	1962	917
35°	1724	1706	1712	1692	1690	1077
45°	1401	1391	1391	1377	1377	1079
55°	1039	1035	1025	1019	1017	923
65°	614	602	588	584	586	613
75°	279	279	276	274	272	303
85°	65	71	71	71	71	76
90°	2	8	14	18	18	7
95°	64	237	767	328	209	68
105°	213	328	1314	2001	1868	225
115°	377	460	1054	2099	2382	372
125°	520	593	956	1618	1895	464
135°	628	697	929	1308	1480	484
145°	726	775	915	1115	1201	455
155°	821	848	909	1002	1031	377
165°	888	899	913	950	956	250
175°	919	921	915	927	925	87
180°	919	919	919	919	919	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2245.1	2245.1	2245.1	2245.1	2245.1
2.5°	2259.3	2240.8	2245.1	2241.7	2232.5
5°	2253.0	2231.8	2239.2	2231.3	2231.3
7.5°	2237.6	2214.5	2221.9	2214.0	2213.6
10°	2223.5	2200.4	2207.7	2199.8	2197.9
12.5°	2203.0	2179.9	2188.8	2179.4	2179.0
15°	2166.4	2145.2	2154.6	2146.6	2142.8
17.5°	2125.1	2102.0	2113.3	2102.2	2100.7
20°	2093.6	2070.5	2081.8	2066.0	2066.0
22.5°	2055.8	2032.7	2045.6	2025.1	2025.1
25°	1995.2	1972.1	1981.4	1963.7	1961.8
27.5°	1923.2	1900.5	1910.2	1890.1	1889.7
30°	1871.2	1850.1	1861.4	1839.7	1837.8
32.5°	1814.6	1795.0	1803.2	1781.5	1779.5
35°	1723.7	1706.4	1711.9	1692.1	1690.2
37.5°	1628.0	1610.3	1616.6	1599.7	1598.9
40°	1560.4	1548.8	1550.5	1536.7	1532.8
42.5°	1497.4	1484.3	1486.0	1472.2	1471.4
45°	1401.0	1391.4	1391.1	1377.4	1377.4
47.5°	1298.7	1291.3	1289.2	1277.8	1277.4
50°	1227.8	1222.0	1219.9	1210.1	1208.1
52.5°	1153.8	1151.1	1144.4	1136.1	1135.7
55°	1038.9	1035.1	1025.1	1019.2	1017.3
57.5°	914.2	906.5	895.3	886.7	888.2
60°	824.4	816.8	800.8	796.9	796.9
62.5°	737.9	728.6	712.7	707.2	710.3
65°	613.9	602.4	588.3	584.4	586.4
67.5°	501.4	491.0	475.8	475.7	474.2
70°	428.9	423.2	411.2	411.2	411.2
72.5°	364.4	361.7	353.0	353.0	351.4
75°	279.4	279.4	275.5	273.5	271.5
77.5°	209.4	210.1	208.2	206.1	202.7
80°	165.3	169.1	167.3	165.2	163.3
82.5°	124.4	128.2	127.9	124.3	124.0
85°	64.9	70.7	70.8	70.8	70.8
87.5°	17.7	25.0	27.9	28.7	30.3
90°	2.0	7.7	13.7	17.6	17.6
92.5°	27.0	115.3	199.9	76.7	63.0
95°	64.5	236.6	766.6	327.8	209.2
97.5°	105.2	262.4	1169.8	901.3	635.9
100°	134.9	278.3	1296.5	1308.6	1067.7
102.5°	163.1	297.3	1329.4	1623.5	1402.5
105°	213.2	327.9	1314.1	2001.4	1867.5
107.5°	260.9	365.6	1239.4	2186.4	2226.2
110°	295.3	390.9	1183.1	2232.4	2370.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	326.6	419.1	1126.8	2202.8	2412.3
115°	377.4	459.6	1054.0	2098.8	2381.8
117.5°	425.9	501.6	1007.9	1953.0	2273.1
120°	455.6	528.3	987.5	1843.8	2174.6
122.5°	482.2	554.9	973.5	1747.9	2061.9
125°	520.2	592.8	956.3	1617.7	1894.9
127.5°	556.2	625.4	944.9	1508.9	1752.2
130°	574.9	645.7	938.7	1444.3	1666.1
132.5°	596.8	667.6	934.0	1387.5	1587.9
135°	627.7	696.6	928.9	1308.3	1480.3
137.5°	656.7	720.5	924.6	1244.2	1386.1
140°	678.6	737.8	923.0	1201.7	1329.8
142.5°	697.3	752.0	919.9	1163.7	1273.4
145°	725.5	775.2	915.2	1114.7	1200.7
147.5°	755.6	798.4	912.8	1071.2	1140.1
150°	774.4	812.6	911.3	1047.4	1101.0
152.5°	791.6	826.8	909.7	1026.9	1071.2
155°	821.3	848.1	909.3	1001.9	1030.6
157.5°	842.8	864.6	909.3	981.3	1001.2
160°	858.5	875.7	909.3	970.3	985.6
162.5°	871.0	885.1	910.9	960.8	973.1
165°	887.8	899.3	913.2	950.5	956.3
167.5°	899.5	908.3	915.2	941.8	943.3
170°	907.4	913.1	915.2	938.7	938.7
172.5°	913.6	916.3	915.2	933.9	932.4
175°	919.1	921.0	915.2	926.9	925.0
177.5°	920.7	920.7	914.4	923.7	920.7
180°	919.1	919.1	919.1	919.1	919.1

(END OF REPORT)