

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: P563688

Luminaire Tested: **SQ4-PP3-125U-075D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563688
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PP3-125U-075D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

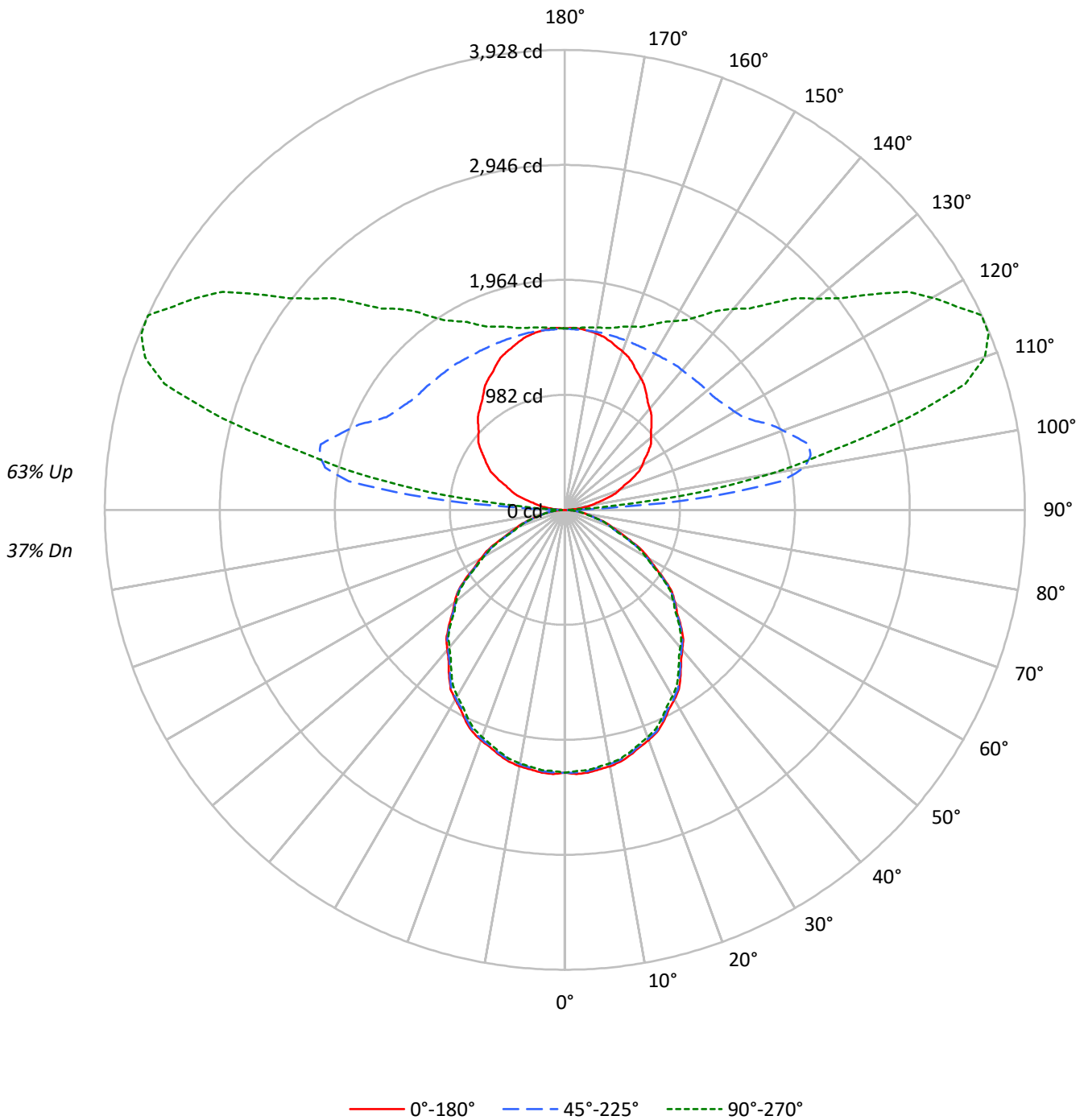
Lumens per Lamp: N/A
Luminaire Lumens: 15748.5 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 116
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	44	44	44	37
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	41	34	33	32	26
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

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	1.3
10°-20°	606.2	3.8
20°-30°	908.0	5.8
30°-40°	1065.0	6.8
40°-50°	1068.3	6.8
50°-60°	911.4	5.8
60°-70°	594.4	3.8
70°-80°	298.2	1.9
80°-90°	86.2	0.5
90°-100°	724.6	4.6
100°-110°	1951.8	12.4
110°-120°	2048.3	13.0
120°-130°	1662.1	10.6
130°-140°	1303.6	8.3
140°-150°	1000.8	6.4
150°-160°	719.6	4.6
160°-170°	439.6	2.8
170°-180°	148.3	0.9
0°-30°	1726.4	11.0
0°-40°	2791.4	17.7
0°-60°	4771.1	30.3
0°-90°	5749.8	36.5
90°-120°	4724.6	30.0
90°-150°	8691.2	55.2
90°-180°	9999.0	63.5
0°-180°	15748.5	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°	4	12	24	26	26	10
95°	110	394	1188	607	420	115
105°	361	562	2158	3229	3031	380
115°	637	780	1797	3473	3928	627
125°	870	999	1614	2728	3210	777
135°	1048	1169	1569	2201	2492	809
145°	1211	1306	1549	1882	2020	760
155°	1375	1425	1535	1688	1742	633
165°	1492	1509	1541	1602	1610	421
175°	1551	1549	1543	1564	1561	147
180°	1549	1549	1549	1549	1549	

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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°	18.1	25.8	29.9	30.4	31.9
90°	3.9	11.7	23.7	25.6	25.6
92.5°	48.1	170.1	336.2	161.9	112.5
95°	110.5	394.1	1187.8	607.4	420.3
97.5°	176.4	451.1	1862.9	1556.3	1173.6
100°	226.9	473.8	2077.6	2173.8	1803.4
102.5°	275.8	505.8	2148.6	2636.2	2332.1
105°	361.1	561.7	2158.5	3229.3	3030.6
107.5°	441.6	620.6	2066.6	3534.1	3585.4
110°	495.2	665.0	1982.9	3628.7	3815.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	552.1	709.5	1902.4	3607.8	3915.3
115°	637.3	780.1	1797.4	3473.0	3928.3
117.5°	715.0	848.9	1716.2	3258.0	3765.0
120°	765.5	894.8	1675.1	3103.6	3624.5
122.5°	809.7	937.4	1645.1	2945.7	3465.1
125°	870.1	999.4	1613.9	2727.8	3210.1
127.5°	928.1	1055.4	1594.2	2535.7	2966.3
130°	962.8	1090.2	1586.3	2425.6	2803.7
132.5°	997.6	1123.4	1578.4	2328.6	2675.8
135°	1047.7	1169.2	1568.6	2200.6	2491.9
137.5°	1095.4	1212.0	1563.4	2092.1	2331.3
140°	1128.6	1240.5	1558.7	2025.3	2241.4
142.5°	1163.3	1267.5	1555.5	1963.0	2145.1
145°	1211.4	1306.0	1548.8	1881.5	2020.4
147.5°	1263.5	1345.7	1542.1	1812.9	1922.1
150°	1298.3	1369.6	1539.0	1769.9	1860.6
152.5°	1329.8	1391.9	1537.4	1734.8	1808.5
155°	1375.2	1425.4	1535.0	1688.2	1742.2
157.5°	1415.1	1454.0	1535.4	1655.4	1691.7
160°	1440.3	1473.1	1537.0	1636.3	1663.3
162.5°	1462.4	1489.0	1538.6	1620.3	1639.6
165°	1491.6	1509.0	1540.9	1602.3	1610.0
167.5°	1515.3	1525.3	1542.9	1588.4	1591.5
170°	1531.1	1534.9	1542.9	1580.4	1580.4
172.5°	1540.5	1541.3	1544.5	1572.5	1572.5
175°	1550.8	1548.9	1542.9	1564.5	1560.7
177.5°	1555.2	1552.1	1544.1	1556.7	1553.6
180°	1548.8	1548.8	1548.8	1548.8	1548.8

(END OF REPORT)