

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: P562737

Luminaire Tested: **SQ4-PC3-075U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562737
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-075U-075D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15367.7 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

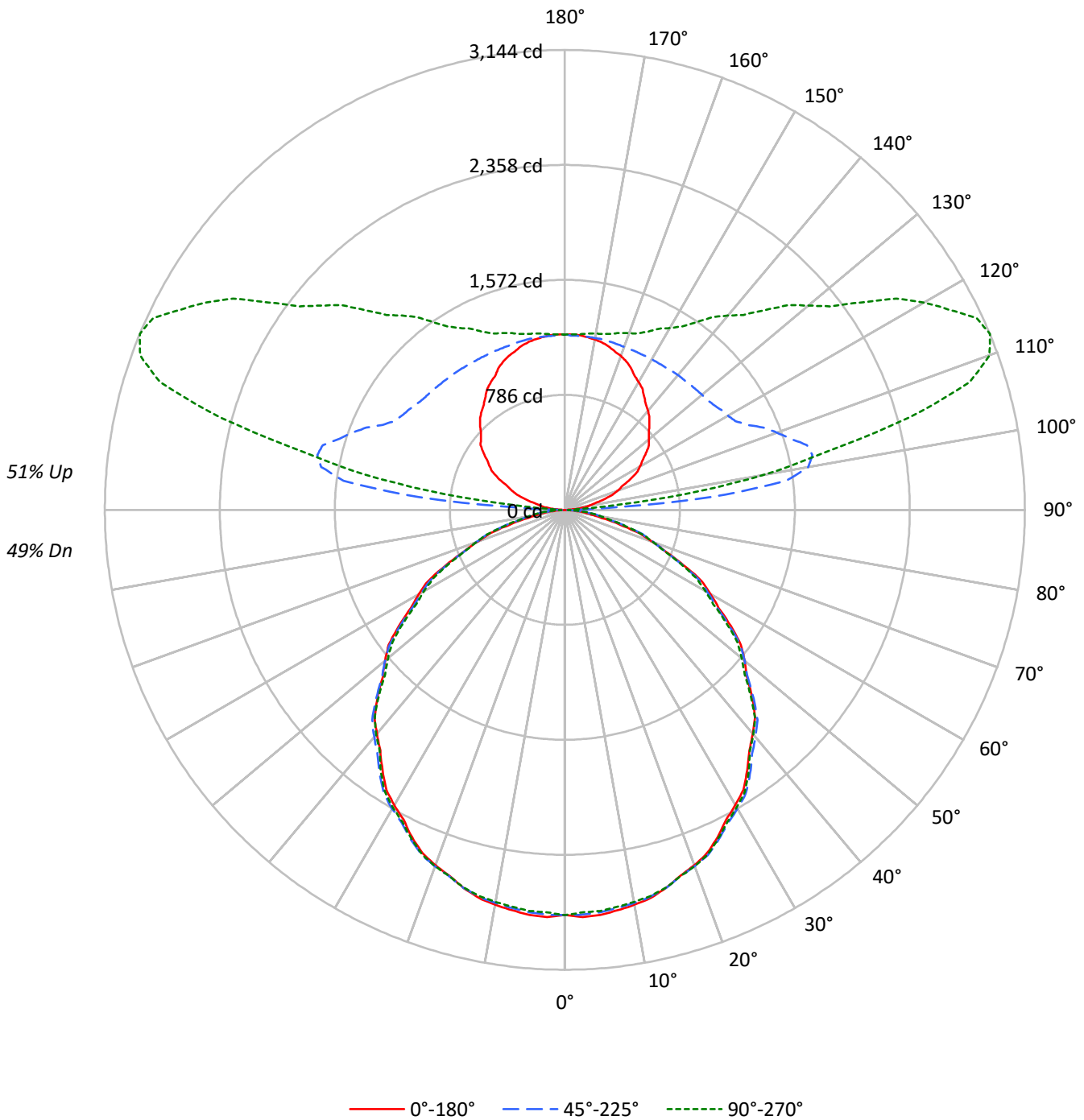
Input Watts (W): 133.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	40	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34	29
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	42	37	58	47	40	34	40	34	30	34	29	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8520	8520	8520
5°	8584	8529	8497
10°	8563	8523	8499
15°	8518	8518	8510
20°	8462	8487	8487
25°	8382	8443	8417
30°	8280	8380	8344
35°	8157	8282	8224
40°	8022	8136	8053
45°	7877	7932	7810
50°	7670	7670	7548
55°	7427	7331	7221
60°	7069	6926	6816
65°	6533	6402	6346
70°	5721	5766	5743
75°	4602	5090	5120
80°	3271	4316	4362
85°	1990	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.2	1.7
10°-20°	752.4	4.9
20°-30°	1139.4	7.4
30°-40°	1366.0	8.9
40°-50°	1392.8	9.1
50°-60°	1215.9	7.9
60°-70°	870.4	5.7
70°-80°	448.3	2.9
80°-90°	116.4	0.8
90°-100°	565.0	3.7
100°-110°	1554.4	10.1
110°-120°	1604.4	10.4
120°-130°	1285.5	8.4
130°-140°	1009.6	6.6
140°-150°	773.7	5.0
150°-160°	556.3	3.6
160°-170°	340.2	2.2
170°-180°	114.7	0.7
0°-30°	2154.0	14.0
0°-40°	3520.0	22.9
0°-60°	6128.7	39.9
0°-90°	7563.8	49.2
90°-120°	3723.8	24.2
90°-150°	6792.7	44.2
90°-180°	7804.0	50.8
0°-180°	15367.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2770	2770	2770	2770	2770	
5°	2781	2753	2763	2755	2752	264
15°	2675	2653	2675	2675	2673	754
25°	2470	2453	2488	2480	2480	1137
35°	2173	2168	2206	2191	2191	1359
45°	1811	1806	1824	1801	1796	1394
55°	1385	1368	1367	1347	1347	1235
65°	898	878	880	872	872	888
75°	387	405	428	431	431	419
85°	56	86	103	105	103	77
90°	2	10	18	23	23	8
95°	84	308	999	427	273	89
105°	278	427	1713	2608	2434	293
115°	492	599	1374	2736	3104	485
125°	678	773	1246	2108	2470	605
135°	818	908	1211	1705	1929	631
145°	946	1010	1193	1453	1565	593
155°	1070	1105	1185	1306	1343	492
165°	1157	1172	1190	1239	1246	326
175°	1198	1200	1193	1208	1206	114
180°	1198	1198	1198	1198	1198	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2770.3	2770.3	2770.3	2770.3	2770.3
2.5°	2786.8	2762.7	2770.3	2764.0	2753.9
5°	2780.6	2753.0	2762.6	2754.9	2752.4
7.5°	2760.6	2733.0	2745.7	2740.5	2738.0
10°	2742.1	2714.5	2729.3	2724.1	2721.6
12.5°	2717.5	2691.9	2708.8	2703.6	2703.1
15°	2675.4	2652.9	2675.4	2675.4	2672.9
17.5°	2622.6	2602.0	2626.2	2627.7	2626.2
20°	2585.7	2563.1	2593.3	2590.8	2593.3
22.5°	2540.5	2521.9	2554.4	2547.7	2550.3
25°	2470.2	2452.7	2488.2	2480.5	2480.5
27.5°	2387.1	2374.6	2413.3	2405.1	2405.1
30°	2331.7	2319.2	2359.9	2349.7	2349.7
32.5°	2270.1	2261.6	2300.4	2288.1	2288.1
35°	2172.7	2167.7	2206.0	2190.6	2190.6
37.5°	2072.1	2067.6	2102.4	2083.8	2077.8
40°	1998.2	1995.7	2026.5	2005.9	2005.9
42.5°	1924.4	1921.9	1948.5	1923.8	1923.8
45°	1811.0	1806.0	1823.8	1800.6	1795.6
47.5°	1687.3	1682.3	1693.5	1668.3	1665.8
50°	1603.2	1598.2	1603.2	1580.1	1577.6
52.5°	1517.0	1508.0	1508.8	1485.7	1485.2
55°	1385.2	1367.6	1367.2	1346.7	1346.7
57.5°	1245.6	1222.6	1224.6	1207.1	1204.6
60°	1149.2	1124.1	1126.1	1110.6	1108.1
62.5°	1054.8	1025.7	1031.7	1014.2	1013.7
65°	897.8	877.7	879.8	872.1	872.1
67.5°	747.0	728.4	741.8	735.7	735.2
70°	636.2	623.6	641.3	641.2	638.7
72.5°	533.5	533.0	555.1	555.1	556.6
75°	387.3	404.9	428.4	430.9	430.9
77.5°	258.6	289.7	315.5	316.5	316.0
80°	184.7	219.8	243.7	248.8	246.3
82.5°	125.2	162.3	182.1	187.2	184.7
85°	56.4	86.5	102.6	105.1	102.6
87.5°	16.9	36.5	44.6	45.5	41.5
90°	2.5	10.0	17.8	22.9	22.9
92.5°	35.2	150.3	260.5	100.0	82.1
95°	84.1	308.4	999.1	427.2	272.7
97.5°	137.1	342.0	1524.6	1174.7	828.8
100°	175.9	362.8	1689.8	1705.6	1391.6
102.5°	212.6	387.5	1732.6	2116.0	1827.9
105°	277.8	427.3	1712.7	2608.5	2434.0
107.5°	340.0	476.6	1615.4	2849.6	2901.5
110°	384.9	509.5	1542.0	2909.6	3089.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	425.6	546.3	1468.6	2871.0	3144.1
115°	491.9	599.1	1373.8	2735.5	3104.3
117.5°	555.1	653.8	1313.6	2545.5	2962.6
120°	593.9	688.6	1287.1	2403.0	2834.2
122.5°	628.5	723.2	1268.8	2278.2	2687.4
125°	678.0	772.7	1246.3	2108.4	2469.7
127.5°	724.9	815.1	1231.5	1966.7	2283.7
130°	749.3	841.5	1223.4	1882.4	2171.5
132.5°	777.9	870.1	1217.3	1808.4	2069.6
135°	818.1	907.9	1210.6	1705.1	1929.4
137.5°	855.9	939.1	1205.0	1621.6	1806.5
140°	884.4	961.7	1203.0	1566.2	1733.1
142.5°	908.9	980.1	1198.9	1516.7	1659.7
145°	945.6	1010.4	1192.8	1452.8	1564.9
147.5°	984.8	1040.6	1189.7	1396.2	1485.9
150°	1009.3	1059.1	1187.7	1365.2	1434.9
152.5°	1031.7	1077.6	1185.7	1338.4	1396.2
155°	1070.5	1105.4	1185.2	1305.8	1343.2
157.5°	1098.5	1126.9	1185.2	1279.0	1304.9
160°	1118.9	1141.3	1185.2	1264.6	1284.6
162.5°	1135.2	1153.6	1187.2	1252.3	1268.2
165°	1157.1	1172.1	1190.3	1238.8	1246.3
167.5°	1172.4	1183.9	1192.8	1227.5	1229.5
170°	1182.6	1190.1	1192.8	1223.4	1223.4
172.5°	1190.8	1194.3	1192.8	1217.2	1215.2
175°	1197.9	1200.4	1192.8	1208.0	1205.5
177.5°	1199.9	1199.9	1191.8	1203.9	1199.9
180°	1197.9	1197.9	1197.9	1197.9	1197.9

(END OF REPORT)