

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: P562701

Luminaire Tested: **SQ4-PC3-075U-050D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562701
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-050D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 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: 14888.8 lumens
Efficiency: N/A
Efficacy: 138.6 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: Semi-Indirect

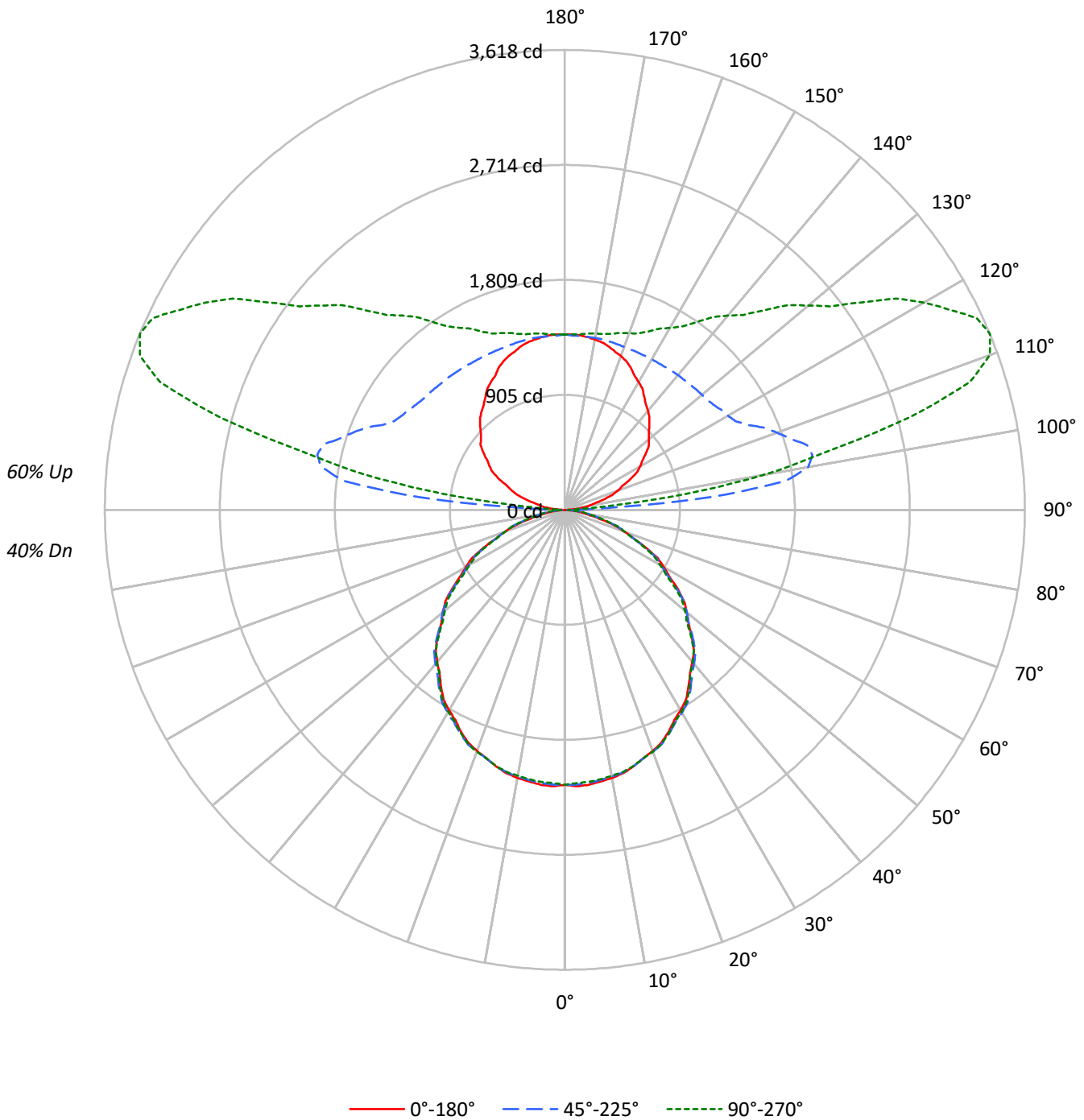
Input Watts (W): 107.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	36	35	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	72	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	66	55	47	41	60	50	43	38	42	36	32	33	30	27	26	23	21	18
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	15
7	56	44	37	31	51	41	34	29	34	29	25	27	23	21	21	19	16	14
8	52	40	33	27	47	37	30	25	31	26	22	25	21	18	20	17	15	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	25	20	26	21	17	21	17	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6653	6653	6653
5°	6703	6660	6635
10°	6687	6655	6637
15°	6651	6651	6645
20°	6608	6627	6627
25°	6545	6593	6573
30°	6466	6544	6515
35°	6369	6467	6422
40°	6264	6353	6288
45°	6150	6194	6098
50°	5990	5990	5894
55°	5799	5724	5638
60°	5519	5408	5322
65°	5101	4999	4956
70°	4466	4502	4484
75°	3594	3975	3998
80°	2554	3370	3406
85°	1556	2826	2826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	1.4
10°-20°	587.5	3.9
20°-30°	889.7	6.0
30°-40°	1066.6	7.2
40°-50°	1087.6	7.3
50°-60°	949.4	6.4
60°-70°	679.7	4.6
70°-80°	350.1	2.4
80°-90°	92.0	0.6
90°-100°	650.2	4.4
100°-110°	1789.0	12.0
110°-120°	1846.5	12.4
120°-130°	1479.4	9.9
130°-140°	1162.0	7.8
140°-150°	890.5	6.0
150°-160°	640.2	4.3
160°-170°	391.5	2.6
170°-180°	132.0	0.9
0°-30°	1681.9	11.3
0°-40°	2748.6	18.5
0°-60°	4785.6	32.1
0°-90°	5907.4	39.7
90°-120°	4285.7	28.8
90°-150°	7817.7	52.5
90°-180°	8981.0	60.3
0°-180°	14888.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2163	2163	2163	2163	2163	
5°	2171	2150	2157	2151	2149	206
15°	2089	2072	2089	2089	2087	589
25°	1929	1915	1943	1937	1937	888
35°	1696	1693	1723	1711	1711	1061
45°	1414	1410	1424	1406	1402	1089
55°	1082	1068	1068	1052	1052	964
65°	701	685	687	681	681	693
75°	302	316	334	336	336	327
85°	44	68	80	82	80	60
90°	3	12	20	26	26	8
95°	97	355	1150	492	314	102
105°	320	492	1971	3002	2801	337
115°	566	690	1581	3148	3573	559
125°	780	889	1434	2426	2842	696
135°	942	1045	1393	1962	2220	727
145°	1088	1163	1373	1672	1801	682
155°	1232	1272	1364	1503	1546	566
165°	1332	1349	1370	1426	1434	375
175°	1379	1382	1373	1390	1387	131
180°	1379	1379	1379	1379	1379	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2163.2	2163.2	2163.2	2163.2	<i>2163.2</i>
2.5°	2176.1	2157.3	2163.2	2158.3	<i>2150.4</i>
5°	2171.2	2149.7	2157.2	2151.2	<i>2149.2</i>
7.5°	2155.6	2134.1	2144.0	2140.0	<i>2138.0</i>
10°	2141.2	2119.7	2131.2	2127.1	<i>2125.2</i>
12.5°	2122.0	2102.0	2115.2	2111.2	<i>2110.8</i>
15°	2089.1	2071.5	2089.1	2089.1	<i>2087.1</i>
17.5°	2047.9	2031.8	2050.7	2051.8	<i>2050.7</i>
20°	2019.0	2001.4	2025.0	2023.1	<i>2025.0</i>
22.5°	1983.8	1969.3	1994.6	1989.4	<i>1991.4</i>
25°	1928.9	1915.2	1942.9	1936.9	<i>1936.9</i>
27.5°	1864.0	1854.2	1884.4	1878.0	<i>1878.0</i>
30°	1820.7	1810.9	1842.8	1834.7	<i>1834.7</i>
32.5°	1772.7	1766.0	1796.3	1786.7	<i>1786.7</i>
35°	1696.5	1692.6	1722.6	1710.6	<i>1710.6</i>
37.5°	1618.0	1614.5	1641.7	1627.1	<i>1622.4</i>
40°	1560.3	1558.4	1582.4	1566.3	<i>1566.3</i>
42.5°	1502.6	1500.7	1521.5	1502.2	<i>1502.2</i>
45°	1414.1	1410.2	1424.1	1406.0	<i>1402.1</i>
47.5°	1317.6	1313.7	1322.4	1302.7	<i>1300.7</i>
50°	1251.9	1248.0	1251.9	1233.8	<i>1231.8</i>
52.5°	1184.6	1177.5	1178.2	1160.1	<i>1159.7</i>
55°	1081.6	1067.9	1067.6	1051.6	<i>1051.6</i>
57.5°	972.7	954.6	956.2	942.6	<i>940.6</i>
60°	897.3	877.8	879.3	867.3	<i>865.3</i>
62.5°	823.6	800.9	805.6	792.0	<i>791.6</i>
65°	701.0	685.4	687.0	681.0	<i>681.0</i>
67.5°	583.3	568.8	579.3	574.5	<i>574.1</i>
70°	496.7	487.0	500.7	500.7	<i>498.7</i>
72.5°	416.6	416.2	433.4	433.5	<i>434.7</i>
75°	302.5	316.2	334.5	336.5	<i>336.5</i>
77.5°	201.9	226.2	246.4	247.2	<i>246.8</i>
80°	144.2	171.6	190.3	194.2	<i>192.3</i>
82.5°	97.7	126.7	142.2	146.2	<i>144.2</i>
85°	44.1	67.6	80.1	82.1	<i>80.1</i>
87.5°	13.4	29.2	36.2	37.3	<i>34.1</i>
90°	2.9	11.5	20.5	26.4	<i>26.4</i>
92.5°	40.5	173.0	299.8	115.1	<i>94.5</i>
95°	96.8	354.9	1149.9	491.7	<i>313.9</i>
97.5°	157.8	393.6	1754.7	1352.0	<i>953.9</i>
100°	202.4	417.5	1944.8	1963.0	<i>1601.6</i>
102.5°	244.6	446.0	1994.1	2435.3	<i>2103.8</i>
105°	319.7	491.8	1971.2	3002.1	<i>2801.3</i>
107.5°	391.3	548.5	1859.1	3279.6	<i>3339.3</i>
110°	442.9	586.3	1774.6	3348.7	<i>3555.2</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	489.9	628.7	1690.2	3304.2	3618.5
115°	566.1	689.5	1581.0	3148.3	3572.8
117.5°	638.9	752.4	1511.8	2929.5	3409.7
120°	683.5	792.4	1481.3	2765.6	3261.8
122.5°	723.4	832.3	1460.2	2621.9	3092.9
125°	780.3	889.2	1434.4	2426.5	2842.4
127.5°	834.2	938.1	1417.4	2263.4	2628.2
130°	862.4	968.5	1408.0	2166.5	2499.2
132.5°	895.2	1001.4	1400.9	2081.3	2381.8
135°	941.6	1044.8	1393.3	1962.4	2220.5
137.5°	985.0	1080.8	1386.9	1866.3	2079.1
140°	1017.9	1106.8	1384.5	1802.5	1994.6
142.5°	1046.0	1128.0	1379.8	1745.5	1910.2
145°	1088.3	1162.8	1372.8	1672.0	1801.0
147.5°	1133.4	1197.7	1369.3	1606.9	1710.1
150°	1161.6	1218.9	1366.9	1571.1	1651.4
152.5°	1187.4	1240.2	1364.6	1540.3	1606.9
155°	1232.0	1272.1	1364.0	1502.8	1545.8
157.5°	1264.3	1296.9	1364.0	1472.0	1501.8
160°	1287.7	1313.5	1364.0	1455.4	1478.4
162.5°	1306.5	1327.7	1366.3	1441.3	1459.6
165°	1331.7	1348.9	1369.8	1425.8	1434.4
167.5°	1349.3	1362.5	1372.8	1412.7	1415.0
170°	1361.0	1369.7	1372.8	1408.0	1408.0
172.5°	1370.4	1374.5	1372.8	1400.9	1398.6
175°	1378.6	1381.5	1372.8	1390.3	1387.4
177.5°	1381.0	1381.0	1371.6	1385.6	1381.0
180°	1378.6	1378.6	1378.6	1378.6	1378.6

(END OF REPORT)