

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: P565136

Luminaire Tested: **SQ4-PW1-150U-075D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565136
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-150U-075D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

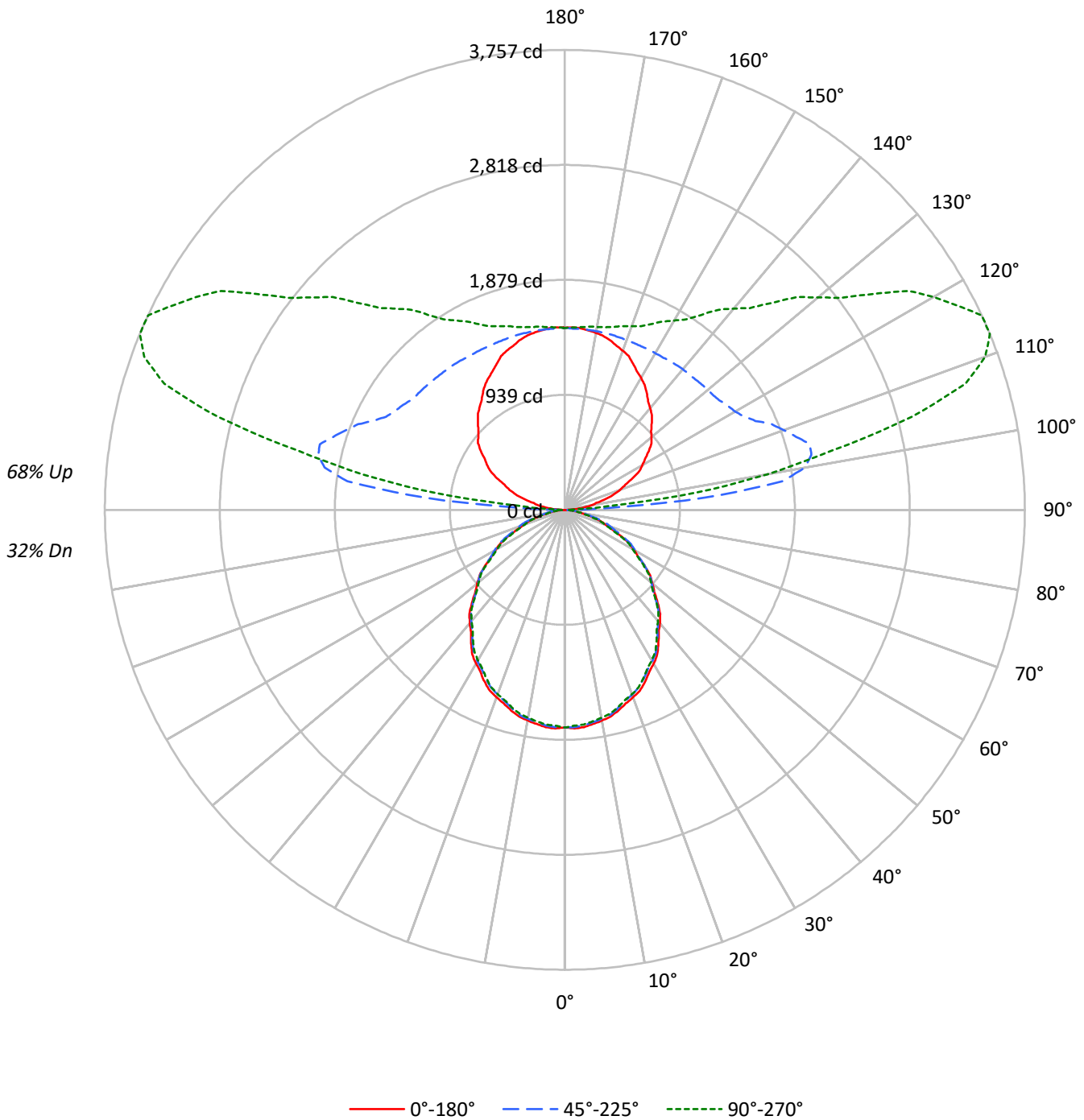
Lumens per Lamp: N/A
Luminaire Lumens: 14112.9 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 131.1
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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	64	62	60	49	48	46	35	34	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	28	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	22	21	17
5	65	54	46	40	59	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8200	8200	8200
5°	8253	8188	8151
10°	8187	8121	8077
15°	8100	8011	7981
20°	8004	7881	7865
25°	7892	7748	7725
30°	7725	7608	7558
35°	7506	7400	7356
40°	7272	7158	7130
45°	6988	6896	6866
50°	6699	6643	6598
55°	6386	6386	6285
60°	5997	6112	5896
65°	5487	5761	5351
70°	4837	5302	4711
75°	4132	4745	4019
80°	3204	3993	3246
85°	2075	3065	2736



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	1.2
10°-20°	472.6	3.3
20°-30°	701.0	5.0
30°-40°	820.2	5.8
40°-50°	816.6	5.8
50°-60°	705.1	5.0
60°-70°	507.6	3.6
70°-80°	266.2	1.9
80°-90°	69.1	0.5
90°-100°	691.1	4.9
100°-110°	1868.5	13.2
110°-120°	1964.4	13.9
120°-130°	1595.6	11.3
130°-140°	1251.7	8.9
140°-150°	960.7	6.8
150°-160°	690.9	4.9
160°-170°	422.1	3.0
170°-180°	142.3	1.0
0°-30°	1341.0	9.5
0°-40°	2161.2	15.3
0°-60°	3682.9	26.1
0°-90°	4525.7	32.1
90°-120°	4524.0	32.1
90°-150°	8331.9	59.0
90°-180°	9587.0	67.9
0°-180°	14112.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1778	1778	1778	1778	1778	
5°	1782	1762	1768	1763	1760	169
15°	1696	1675	1677	1674	1671	478
25°	1550	1524	1522	1513	1518	713
35°	1333	1314	1314	1302	1306	833
45°	1071	1062	1057	1054	1052	827
55°	794	792	794	783	782	708
65°	503	518	528	507	490	498
75°	232	253	266	248	226	248
85°	39	51	58	55	52	52
90°	3	10	21	22	21	9
95°	107	376	1149	595	354	112
105°	347	537	2073	3058	2932	366
115°	611	748	1719	3328	3757	604
125°	837	959	1549	2615	3072	746
135°	1004	1122	1508	2111	2390	776
145°	1167	1254	1487	1807	1945	730
155°	1317	1369	1474	1621	1674	608
165°	1434	1448	1481	1538	1546	404
175°	1489	1487	1482	1501	1498	141
180°	1487	1487	1487	1487	1487	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1777.6	1777.6	1777.6	1777.6	1777.6
2.5°	1787.6	1772.9	1777.6	1773.6	1765.0
5°	1782.3	1762.4	1768.2	1763.4	1760.3
7.5°	1764.1	1745.7	1750.0	1745.0	1743.1
10°	1747.8	1729.4	1733.7	1727.4	1724.3
12.5°	1729.0	1709.4	1713.7	1707.4	1705.5
15°	1696.1	1674.7	1677.3	1674.1	1671.1
17.5°	1657.9	1636.2	1636.6	1631.6	1631.0
20°	1630.4	1607.4	1605.3	1599.1	1602.2
22.5°	1600.3	1576.1	1574.0	1565.3	1569.6
25°	1550.5	1524.5	1522.3	1513.0	1517.6
27.5°	1492.9	1467.1	1467.2	1454.1	1459.0
30°	1450.3	1425.7	1428.3	1412.8	1418.9
32.5°	1405.1	1383.1	1384.5	1369.0	1375.1
35°	1332.8	1314.4	1314.0	1301.6	1306.2
37.5°	1258.9	1242.6	1240.1	1232.9	1234.1
40°	1207.5	1193.7	1188.7	1184.0	1184.0
42.5°	1153.6	1141.1	1136.1	1132.6	1131.4
45°	1071.2	1062.1	1057.1	1054.0	1052.4
47.5°	989.8	981.2	977.0	974.7	973.2
50°	933.4	927.3	925.6	920.9	919.3
52.5°	877.0	873.4	871.7	865.7	864.2
55°	794.0	792.5	794.0	783.0	781.5
57.5°	707.6	710.0	715.1	700.3	696.6
60°	650.0	656.1	662.5	645.1	639.0
62.5°	591.1	600.9	609.9	589.9	581.4
65°	502.7	518.0	527.8	507.0	490.2
67.5°	417.5	436.5	448.2	425.9	406.9
70°	358.6	380.1	393.1	370.7	349.3
72.5°	307.3	331.2	341.7	320.6	299.1
75°	231.8	253.2	266.2	248.5	225.5
77.5°	164.4	184.7	195.5	180.0	161.0
80°	120.6	142.0	150.3	137.5	122.2
82.5°	85.5	103.3	109.0	101.2	90.8
85°	39.2	51.4	57.9	54.7	51.7
87.5°	10.7	20.5	28.0	28.3	29.2
90°	3.2	9.5	20.8	22.4	20.8
92.5°	45.5	165.7	326.8	141.9	102.8
95°	107.2	376.4	1149.3	594.8	353.7
97.5°	172.2	431.7	1791.4	1482.5	1088.8
100°	220.9	454.1	1991.2	2076.6	1679.1
102.5°	265.7	485.1	2061.6	2527.0	2229.7
105°	347.3	536.7	2072.8	3057.6	2932.4
107.5°	422.9	595.7	1982.2	3388.5	3430.2
110°	481.8	638.3	1901.6	3477.4	3654.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	534.3	680.8	1827.3	3459.6	3756.7
115°	611.4	747.6	1719.1	3327.9	3756.7
117.5°	687.0	814.7	1647.7	3126.5	3612.6
120°	733.1	858.3	1605.4	2982.1	3478.2
122.5°	776.6	899.3	1579.8	2827.2	3327.1
125°	837.1	959.2	1549.4	2614.6	3071.6
127.5°	892.8	1012.7	1531.5	2441.1	2843.0
130°	923.6	1047.2	1523.8	2334.0	2697.1
132.5°	955.6	1078.0	1516.1	2237.3	2571.6
135°	1003.6	1122.5	1507.8	2111.2	2389.7
137.5°	1051.9	1164.3	1500.8	2008.8	2235.8
140°	1085.2	1190.1	1498.2	1943.0	2144.9
142.5°	1117.2	1215.8	1493.1	1883.5	2060.3
145°	1166.9	1254.5	1487.0	1807.0	1944.8
147.5°	1212.0	1289.6	1479.9	1737.8	1843.6
150°	1245.3	1314.2	1477.4	1700.2	1784.7
152.5°	1276.0	1336.1	1476.1	1665.3	1734.8
155°	1317.3	1369.0	1474.2	1621.1	1674.3
157.5°	1360.2	1396.2	1474.5	1590.2	1625.3
160°	1384.5	1414.3	1475.8	1570.8	1595.8
162.5°	1403.8	1428.5	1477.1	1555.3	1574.1
165°	1434.2	1448.3	1480.6	1538.4	1546.2
167.5°	1455.0	1464.7	1480.9	1523.9	1527.6
170°	1467.8	1472.5	1482.2	1517.4	1517.4
172.5°	1478.0	1479.0	1482.2	1509.7	1508.4
175°	1488.6	1487.0	1482.2	1501.3	1498.2
177.5°	1492.1	1488.4	1481.9	1494.6	1490.8
180°	1487.0	1487.0	1487.0	1487.0	1487.0

(END OF REPORT)