

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P522460

Luminaire Tested: **SQW-F-100U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522460
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-100U-050D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

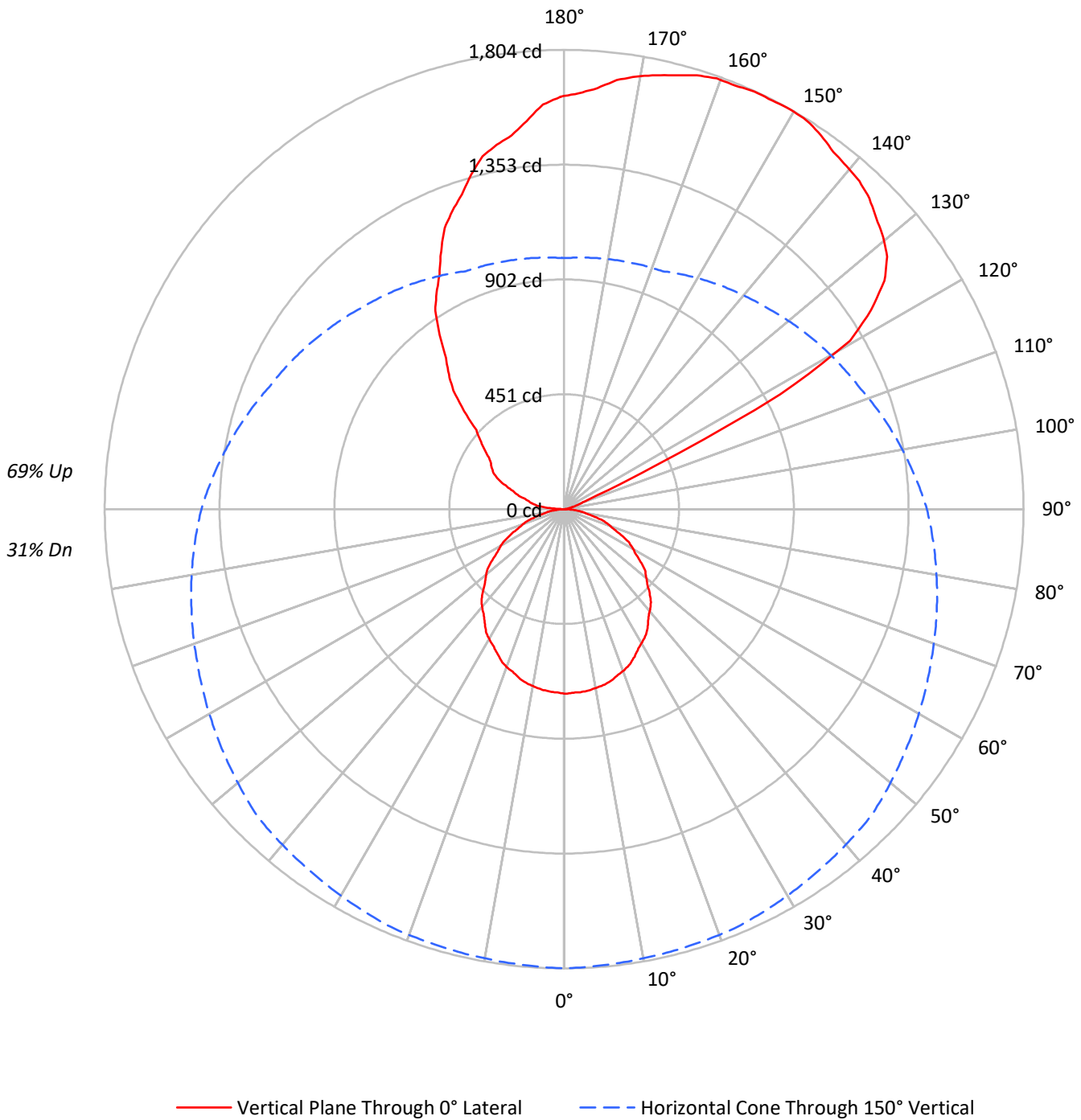
Lumens per Lamp: N/A
Luminaire Lumens: 6544.0 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 56.6
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	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	93	89	85	82	84	80	77	74	64	61	59	48	47	45	34	33	32	26
2	85	78	72	67	76	70	65	61	56	52	49	42	40	38	30	28	27	22
3	77	68	61	55	69	62	55	51	49	45	41	37	34	32	26	25	23	18
4	71	60	53	47	63	54	48	43	43	39	35	33	30	27	23	21	20	15
5	65	53	46	40	58	48	41	36	39	34	30	29	26	23	21	19	17	13
6	60	48	40	34	53	43	36	31	35	30	26	27	23	20	19	17	15	12
7	55	43	35	30	49	39	32	27	31	26	23	24	21	18	17	15	13	10
8	51	39	31	26	46	35	29	24	28	23	20	22	18	16	16	14	12	9
9	47	35	28	23	42	32	26	21	26	21	18	20	17	14	15	12	11	8
10	44	32	25	21	40	29	23	19	24	19	16	19	15	13	14	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11711	11711	11711
5°	11705	11823	11655
10°	11688	11808	11603
15°	11674	11744	11519
20°	11591	11680	11378
25°	11448	11558	11190
30°	11285	11440	11035
35°	11156	11298	10829
40°	10947	11143	10642
45°	10750	10985	10396
50°	10474	10786	10135
55°	10252	10545	9757
60°	9956	10324	9390
65°	9410	9883	8856
70°	8889	9427	8257
75°	8197	8652	7555
80°	7122	7596	6351
85°	5372	5947	4798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	1.0
10°-20°	196.1	3.0
20°-30°	295.0	4.5
30°-40°	352.2	5.4
40°-50°	362.3	5.5
50°-60°	325.9	5.0
60°-70°	246.5	3.8
70°-80°	140.2	2.1
80°-90°	37.0	0.6
90°-100°	42.6	0.7
100°-110°	184.4	2.8
110°-120°	525.8	8.0
120°-130°	799.5	12.2
130°-140°	864.7	13.2
140°-150°	826.2	12.6
150°-160°	679.5	10.4
160°-170°	444.0	6.8
170°-180°	153.6	2.3
0°-30°	559.7	8.6
0°-40°	911.9	13.9
0°-60°	1600.1	24.5
0°-90°	2023.8	30.9
90°-120°	752.7	11.5
90°-150°	3243.1	49.6
90°-180°	4520.0	69.1
0°-180°	6544.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	725	725	725	725	725	
5°	722	722	730	722	719	69
15°	698	700	703	694	689	197
25°	643	649	649	640	628	296
35°	566	572	573	561	549	353
45°	471	477	481	466	455	363
55°	364	372	375	360	347	325
65°	246	254	259	243	232	245
75°	131	136	139	128	121	139
85°	29	33	32	29	26	34
90°	0	0	0	0	0	1
95°	7	10	29	69	65	9
105°	43	109	213	146	157	49
115°	388	1031	532	253	286	533
125°	1546	1360	851	418	359	1358
135°	1711	1548	1119	694	550	1319
145°	1782	1668	1334	987	842	1116
155°	1803	1723	1489	1236	1122	833
165°	1760	1722	1595	1430	1364	500
175°	1658	1663	1634	1574	1532	161
180°	1620	1620	1620	1620	1620	



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CATALOG NUMBER: SQW-F-100U-050D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3
2.5°	722.0	724.5	724.5	723.8	730.3	723.8	725.3	723.6	721.2
5°	722.2	722.2	722.2	721.4	729.5	720.4	722.2	719.1	719.1
7.5°	717.9	718.1	718.9	716.2	725.1	715.0	716.9	713.6	714.4
10°	712.9	713.9	714.0	712.1	720.2	710.0	711.9	707.7	707.7
12.5°	708.0	708.2	709.0	706.3	714.4	703.4	705.3	701.1	700.3
15°	698.4	698.4	699.5	695.5	702.6	692.5	694.3	689.1	689.1
17.5°	684.6	684.4	686.8	681.6	688.9	677.6	681.3	674.8	673.0
20°	674.6	673.6	677.7	671.7	679.8	667.7	670.5	663.2	662.2
22.5°	662.2	661.2	667.0	660.9	668.2	656.1	658.9	649.2	649.0
25°	642.6	641.5	648.8	642.7	648.8	637.6	639.5	629.1	628.1
27.5°	620.2	620.2	628.7	621.6	628.5	617.4	618.1	607.6	607.6
30°	605.3	605.3	614.6	607.5	613.6	602.5	603.2	591.9	591.9
32.5°	589.6	589.6	597.2	591.8	597.9	586.7	586.7	575.3	575.3
35°	566.0	564.0	572.2	567.2	573.2	562.1	560.8	549.4	549.4
37.5°	537.6	536.6	545.7	542.1	547.0	536.0	533.1	522.1	523.2
40°	519.4	518.4	526.7	524.7	528.7	518.6	513.2	503.9	504.9
42.5°	500.4	498.6	506.8	505.7	509.7	499.6	495.0	484.9	485.1
45°	470.8	470.8	477.0	477.1	481.1	470.0	465.6	455.3	455.3
47.5°	439.3	439.5	446.0	446.3	450.1	440.4	435.6	424.4	424.2
50°	417.0	418.0	425.3	426.4	429.4	421.3	414.9	404.6	403.5
52.5°	398.0	396.5	403.7	405.7	407.9	399.8	393.4	383.0	382.0
55°	364.2	365.2	371.5	374.6	374.6	367.5	360.1	349.7	346.6
57.5°	330.7	332.1	337.1	341.1	342.1	334.2	326.6	317.2	313.1
60°	308.3	307.3	315.6	318.7	319.7	312.6	304.2	294.8	290.8
62.5°	284.3	284.9	290.8	295.5	296.6	288.7	281.0	269.2	265.9
65°	246.3	249.3	253.5	256.7	258.7	252.6	243.2	233.8	231.8
67.5°	211.5	213.5	217.7	222.5	223.7	216.8	208.4	200.3	198.0
70°	188.3	190.3	194.5	197.7	199.7	193.6	185.2	177.9	174.9
72.5°	165.1	167.2	170.5	173.7	175.7	169.6	162.0	155.6	153.3
75°	131.4	133.4	135.5	137.6	138.7	134.6	128.3	122.1	121.1
77.5°	98.1	100.1	102.4	105.1	104.1	101.3	95.2	91.0	89.8
80°	76.6	78.6	81.7	82.8	81.7	79.7	74.5	70.3	68.3
82.5°	56.7	58.7	61.9	62.0	60.2	59.8	55.5	52.1	50.9
85°	29.0	31.0	33.1	34.1	32.1	32.1	29.0	25.9	25.9
87.5°	5.8	7.4	9.9	12.4	9.9	10.7	8.3	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.2	2.2	2.2	4.4	6.6	23.8	26.4	23.1	23.1
95°	6.9	6.9	9.6	30.2	28.9	49.0	68.8	64.6	64.6
97.5°	14.0	15.4	22.0	89.4	67.4	65.5	93.0	103.5	105.3
100°	20.6	22.0	33.0	146.1	100.4	85.6	101.8	121.1	125.1
102.5°	28.3	30.7	52.8	229.8	141.1	100.5	116.1	133.2	138.3
105°	42.6	46.7	108.6	385.3	213.1	131.1	145.8	152.7	156.8
107.5°	63.3	79.7	292.6	541.3	302.5	173.2	188.7	187.6	191.1
110°	85.3	118.9	506.1	626.7	368.5	205.8	206.3	217.2	213.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	141.4	236.3	754.7	708.8	434.5	245.0	222.8	247.0	248.4
115°	387.8	666.1	1031.4	824.0	532.2	314.4	253.0	276.6	286.0
117.5°	961.5	1158.9	1173.0	926.2	629.5	391.8	287.7	298.1	310.5
120°	1303.6	1344.0	1239.0	988.9	694.4	447.0	316.3	312.5	325.9
122.5°	1437.9	1423.3	1292.9	1047.3	758.3	505.5	351.5	330.0	339.1
125°	1545.7	1508.0	1360.0	1128.2	851.2	593.1	418.0	358.9	358.9
127.5°	1610.0	1566.2	1421.6	1200.0	935.1	681.5	498.1	405.9	393.3
130°	1647.4	1600.4	1459.0	1249.6	990.1	738.7	554.2	446.5	426.3
132.5°	1676.0	1633.3	1494.2	1288.5	1044.0	794.7	610.3	496.8	463.7
135°	1710.7	1674.4	1548.4	1347.9	1119.4	878.7	694.4	583.7	550.1
137.5°	1733.0	1704.7	1597.1	1396.8	1189.2	962.0	779.4	668.2	637.8
140°	1745.1	1722.2	1621.3	1425.8	1232.1	1015.7	838.8	725.4	697.2
142.5°	1757.2	1738.6	1638.9	1457.9	1273.9	1069.3	897.1	783.7	753.3
145°	1782.2	1760.7	1668.1	1496.6	1333.9	1144.3	987.4	868.5	841.6
147.5°	1799.8	1774.0	1692.0	1538.2	1390.5	1212.3	1070.1	955.4	928.8
150°	1804.2	1777.3	1705.2	1560.5	1424.7	1253.9	1120.7	1011.5	986.0
152.5°	1800.9	1780.5	1715.1	1579.4	1453.3	1294.3	1166.9	1065.5	1042.1
155°	1802.8	1784.0	1723.1	1604.9	1489.3	1350.8	1236.3	1146.3	1122.1
157.5°	1794.6	1782.2	1728.6	1624.5	1522.6	1401.3	1299.8	1224.1	1199.7
160°	1794.6	1775.7	1728.6	1635.8	1545.7	1434.1	1339.4	1271.6	1251.4
162.5°	1782.5	1765.8	1727.5	1643.8	1567.7	1464.7	1376.8	1313.5	1298.7
165°	1760.2	1746.7	1721.7	1654.3	1595.2	1506.4	1430.2	1373.6	1364.1
167.5°	1742.9	1724.3	1710.7	1653.9	1613.9	1536.4	1475.3	1428.4	1423.0
170°	1723.1	1711.0	1699.7	1650.9	1622.7	1558.1	1507.2	1460.3	1454.9
172.5°	1697.8	1691.0	1685.4	1648.9	1628.2	1576.5	1534.7	1492.1	1482.4
175°	1658.4	1663.8	1662.6	1644.4	1633.7	1600.1	1574.5	1544.0	1531.9
177.5°	1634.2	1632.1	1637.5	1634.2	1633.1	1612.7	1605.6	1584.9	1591.3
180°	1619.9	1619.9	1619.9	1619.9	1619.9	1619.9	1619.9	1619.9	1619.9

(END OF REPORT)