

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: P522560

Luminaire Tested: **SQW-F-075U-125D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522560
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-075U-125D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

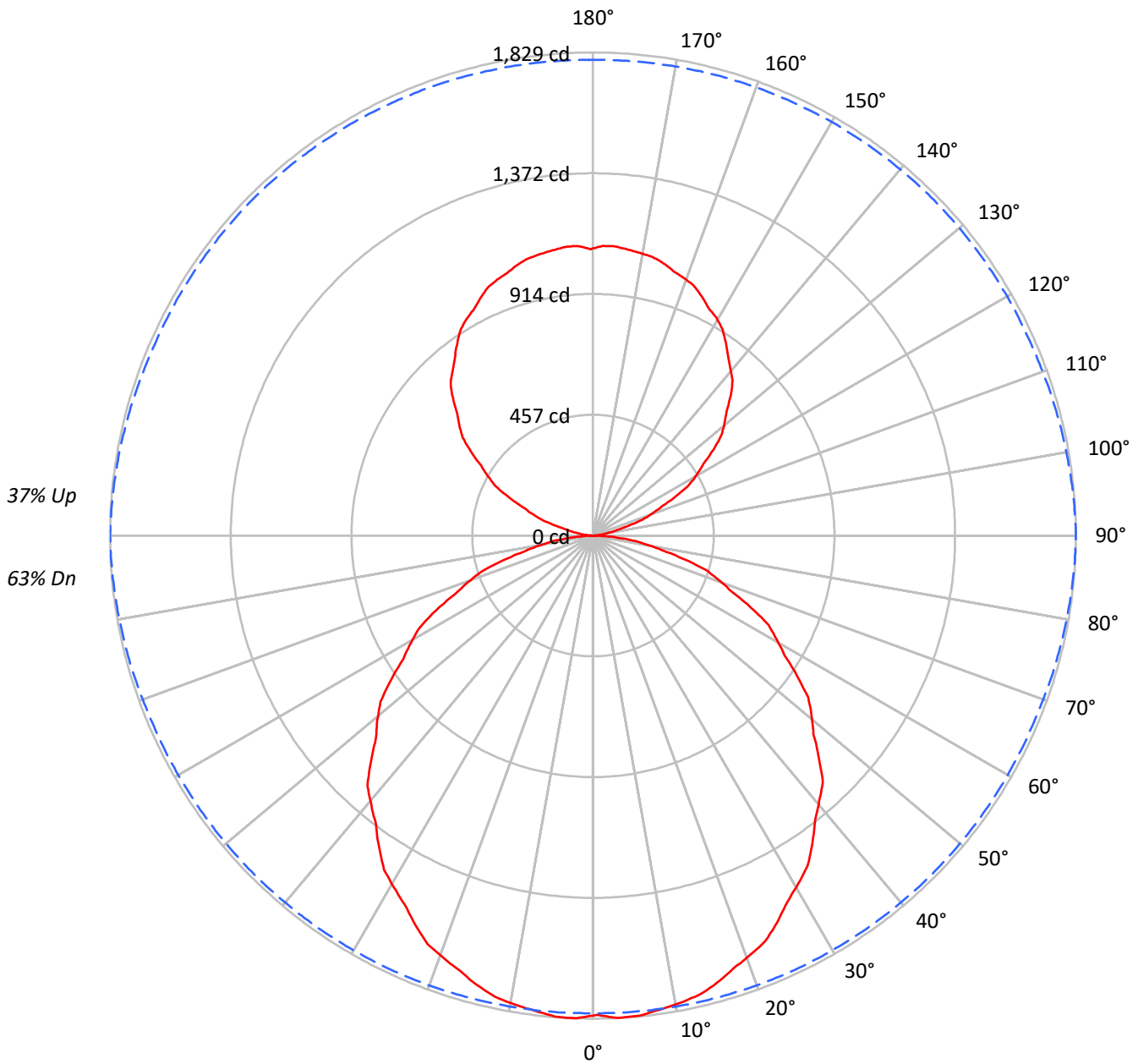
Lumens per Lamp: N/A
Luminaire Lumens: 8081.7 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 84.3
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



— Vertical Plane Through 90° Lateral - - - Horizontal Cone Through 2.5° Vertical



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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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	100	96	92	88	94	90	87	83	79	76	74	69	67	65	60	58	57	52
2	91	84	77	72	85	79	73	68	69	65	61	60	57	54	52	50	48	44
3	83	73	66	60	78	69	62	57	61	56	51	53	49	46	46	43	40	37
4	76	65	57	50	71	61	54	48	54	48	43	47	43	39	41	38	35	31
5	70	58	49	43	65	54	47	41	48	42	37	42	38	34	37	33	30	27
6	64	52	43	37	60	49	41	36	43	37	33	38	33	30	34	30	26	24
7	60	47	39	33	56	44	37	31	39	33	29	35	30	26	31	27	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	36	28	23	45	34	27	22	30	25	21	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	29290	29290	29290
5°	29370	29598	29107
10°	29327	29511	28914
15°	29259	29377	28735
20°	29017	29156	28374
25°	28682	28880	27872
30°	28320	28527	27397
35°	27989	28208	26812
40°	27499	27819	26306
45°	27001	27391	25615
50°	26631	26960	25031
55°	25973	26401	24180
60°	25226	25814	23237
65°	24286	25173	22048
70°	23042	23854	20752
75°	21435	22190	18727
80°	18233	19265	15602
85°	13857	14987	10671



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	2.1
10°-20°	490.2	6.1
20°-30°	737.1	9.1
30°-40°	880.5	10.9
40°-50°	905.6	11.2
50°-60°	815.3	10.1
60°-70°	621.0	7.7
70°-80°	354.0	4.4
80°-90°	92.2	1.1
90°-100°	27.4	0.3
100°-110°	121.5	1.5
110°-120°	349.1	4.3
120°-130°	531.8	6.6
130°-140°	577.2	7.1
140°-150°	552.0	6.8
150°-160°	454.7	5.6
160°-170°	297.6	3.7
170°-180°	103.0	1.3
0°-30°	1398.9	17.3
0°-40°	2279.4	28.2
0°-60°	4000.3	49.5
0°-90°	5067.4	62.7
90°-120°	498.0	6.2
90°-150°	2158.9	26.7
90°-180°	3014.0	37.3
0°-180°	8081.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1814	1814	1814	1814	1814	
5°	1812	1811	1826	1800	1796	172
15°	1750	1750	1758	1728	1719	493
25°	1610	1624	1621	1591	1564	741
35°	1420	1436	1431	1397	1360	887
45°	1182	1198	1200	1156	1122	914
55°	923	934	938	890	859	825
65°	636	648	659	608	577	629
75°	344	351	356	316	300	362
85°	75	87	81	69	58	89
90°	0	0	0	0	0	3
95°	4	6	19	42	41	5
105°	27	74	140	96	102	32
115°	262	688	352	165	185	362
125°	1040	906	561	278	236	913
135°	1146	1038	744	461	367	885
145°	1200	1117	887	656	560	752
155°	1212	1162	994	823	750	561
165°	1186	1156	1065	957	911	337
175°	1117	1120	1098	1049	1024	108
180°	1084	1084	1084	1084	1084	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1814.1	1814.1	1814.1	1814.1	1814.1	1814.1	1814.1	1814.1	1814.1
2.5°	1808.4	1812.4	1814.1	1812.8	1828.7	1810.5	1810.9	1805.9	1800.4
5°	1812.1	1810.1	1811.1	1807.5	1826.2	1802.5	1800.0	1794.9	1795.9
7.5°	1800.2	1798.8	1799.5	1794.3	1812.1	1788.2	1786.2	1780.9	1780.5
10°	1788.8	1785.9	1789.8	1782.2	1800.0	1775.2	1771.7	1765.5	1763.6
12.5°	1775.9	1772.1	1776.9	1767.6	1784.6	1757.5	1757.1	1748.6	1747.4
15°	1750.4	1750.4	1750.4	1742.7	1757.5	1729.8	1728.2	1719.1	1719.1
17.5°	1714.7	1715.4	1720.7	1710.5	1722.7	1696.1	1692.6	1681.9	1680.5
20°	1688.8	1688.8	1698.9	1683.0	1696.9	1670.2	1667.6	1650.4	1651.4
22.5°	1658.1	1658.1	1670.6	1656.3	1668.6	1641.9	1638.5	1618.1	1619.0
25°	1610.0	1608.0	1624.1	1610.2	1621.1	1594.4	1590.8	1566.4	1564.5
27.5°	1556.2	1558.0	1573.6	1559.0	1568.9	1539.9	1540.8	1511.8	1508.3
30°	1519.0	1520.0	1537.2	1524.2	1530.1	1503.4	1502.8	1471.4	1469.5
32.5°	1480.2	1480.4	1498.4	1483.0	1492.1	1464.6	1460.8	1431.0	1428.2
35°	1420.0	1419.0	1436.1	1425.1	1431.1	1402.4	1396.7	1369.2	1360.3
37.5°	1351.6	1352.4	1368.6	1362.2	1366.0	1338.5	1327.4	1300.0	1296.7
40°	1304.7	1304.7	1320.9	1316.9	1319.9	1293.2	1280.5	1253.1	1248.1
42.5°	1256.2	1257.8	1272.4	1269.3	1276.2	1247.2	1231.2	1205.3	1198.8
45°	1182.5	1185.4	1197.6	1194.7	1199.6	1174.9	1156.2	1128.7	1121.8
47.5°	1112.7	1109.8	1123.4	1121.7	1123.4	1099.3	1080.6	1052.2	1046.6
50°	1060.2	1057.2	1069.3	1072.3	1073.3	1047.6	1028.8	1000.4	996.5
52.5°	1006.0	1003.0	1015.9	1020.6	1020.7	996.6	974.7	947.9	943.9
55°	922.7	917.8	933.8	939.9	937.9	917.1	890.4	867.0	859.0
57.5°	838.6	838.0	851.8	857.2	856.0	835.5	808.9	785.1	777.0
60°	781.2	778.3	794.4	801.4	799.4	779.7	749.9	728.5	719.6
62.5°	723.8	724.0	737.8	744.1	746.1	722.3	694.9	670.3	663.8
65°	635.7	631.7	647.8	654.0	658.9	634.2	608.4	584.0	577.1
67.5°	547.2	544.2	555.2	562.4	566.8	544.6	519.5	499.2	496.2
70°	488.1	485.2	496.2	503.3	505.3	485.6	458.8	442.6	439.6
72.5°	429.9	427.0	435.6	442.8	447.1	425.8	400.6	385.1	378.2
75°	343.6	341.6	350.7	350.8	355.7	335.0	316.3	301.1	300.2
77.5°	257.5	258.9	265.4	265.8	267.0	251.6	236.9	219.7	218.7
80°	196.1	203.0	207.2	209.2	207.2	197.3	181.9	168.8	167.8
82.5°	145.1	150.5	158.7	157.4	153.8	146.3	134.2	121.9	120.9
85°	74.8	79.7	86.9	86.8	80.9	76.9	68.7	58.6	57.6
87.5°	17.8	20.9	28.3	30.6	25.1	25.9	17.8	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.8	0.8	1.6	2.5	4.0	15.1	17.0	15.3	14.6
95°	4.0	4.0	6.1	19.2	19.2	31.1	42.4	41.4	41.4
97.5°	9.1	10.1	14.1	58.5	43.7	42.5	60.6	66.7	67.3
100°	13.1	14.1	22.2	95.3	64.7	54.8	64.7	78.9	81.9
102.5°	18.0	19.8	35.2	150.5	91.4	65.7	76.0	86.2	89.1
105°	27.3	30.3	73.8	252.1	139.5	87.1	96.0	101.1	102.1
107.5°	41.0	52.1	201.9	354.6	197.9	115.3	120.5	123.9	125.1
110°	55.6	79.3	350.7	416.5	241.5	136.8	133.4	142.5	140.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	93.6	163.2	514.8	467.2	285.2	162.3	145.5	160.3	161.5
115°	261.8	449.5	688.2	539.5	351.7	206.4	164.7	179.0	184.9
117.5°	656.9	781.6	779.6	606.3	415.6	258.5	187.8	194.6	201.3
120°	883.3	902.1	825.7	651.5	456.8	295.7	207.2	204.3	210.2
122.5°	967.4	952.2	860.5	691.2	498.9	334.6	232.2	214.8	219.9
125°	1040.0	1010.3	905.5	747.7	560.9	391.9	277.9	237.5	236.5
127.5°	1080.2	1049.1	949.6	796.8	617.9	451.5	329.9	269.6	260.5
130°	1099.6	1070.9	980.3	826.9	655.9	491.9	367.9	297.8	284.0
132.5°	1123.0	1092.0	1002.2	857.7	692.3	529.8	405.9	331.7	315.5
135°	1146.1	1117.4	1037.9	898.0	743.8	585.7	460.9	387.6	366.9
137.5°	1166.7	1140.4	1070.7	929.7	790.3	640.7	519.1	447.7	422.4
140°	1180.4	1151.8	1084.4	954.0	818.6	675.3	557.9	486.7	466.9
142.5°	1185.3	1167.7	1099.0	974.5	850.2	708.4	596.7	523.1	504.9
145°	1199.6	1187.8	1116.8	999.0	887.3	757.9	655.9	579.7	559.9
147.5°	1208.9	1191.1	1133.1	1025.5	923.7	802.2	709.7	636.5	618.1
150°	1209.7	1195.9	1146.1	1041.9	948.0	834.3	742.8	673.7	656.9
152.5°	1216.2	1199.2	1152.5	1055.7	965.8	861.6	776.0	711.7	693.3
155°	1211.8	1199.9	1162.2	1073.5	993.5	896.6	822.7	765.7	749.9
157.5°	1211.8	1197.1	1163.5	1087.3	1020.1	935.2	866.3	813.7	801.8
160°	1203.7	1197.7	1164.3	1097.1	1033.9	956.8	895.4	847.6	831.8
162.5°	1200.4	1190.6	1165.9	1103.7	1046.0	974.5	920.5	875.1	863.3
165°	1186.5	1177.6	1156.2	1106.7	1065.2	1005.9	957.1	916.5	910.6
167.5°	1170.5	1163.6	1149.5	1111.5	1078.0	1029.5	988.4	955.7	947.6
170°	1159.2	1148.3	1143.0	1114.1	1084.4	1043.9	1008.6	979.1	970.2
172.5°	1139.8	1138.4	1134.1	1107.9	1090.1	1056.7	1027.2	1000.2	994.5
175°	1116.8	1116.8	1119.8	1103.5	1097.6	1069.9	1049.0	1032.7	1023.8
177.5°	1090.1	1090.9	1097.4	1096.6	1097.4	1081.5	1075.5	1060.1	1058.5
180°	1084.4	1084.4	1084.4	1084.4	1084.4	1084.4	1084.4	1084.4	1084.4

(END OF REPORT)