

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: P522585

Luminaire Tested: **SQW-F-0U-125D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522585
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-0U-125D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

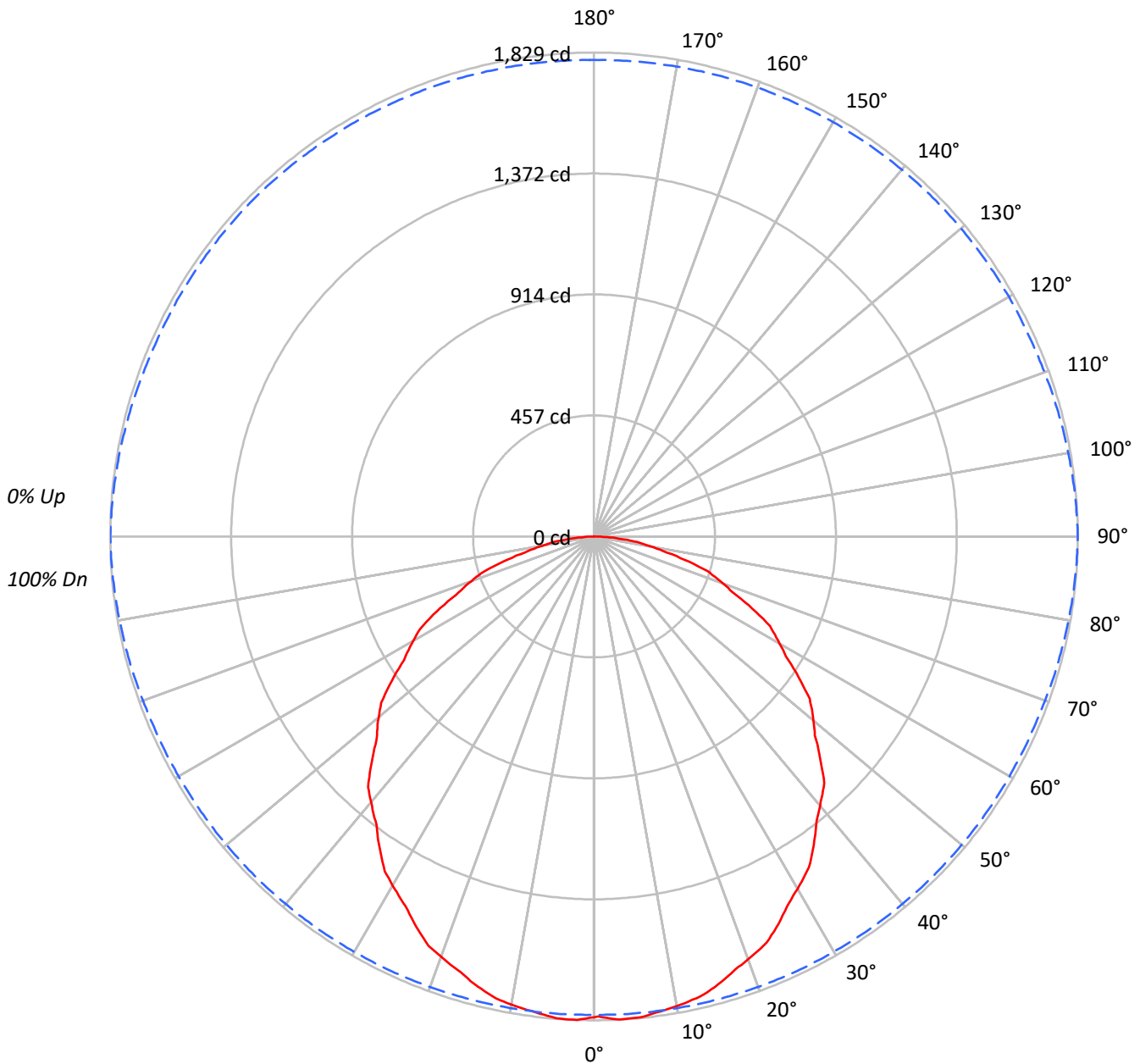
Lumens per Lamp: N/A
Luminaire Lumens: 5067.4 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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



— 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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84				
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70				
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59				
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50				
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43				
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38				
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33				
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30				
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27				
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24				

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	3.4
10°-20°	490.2	9.7
20°-30°	737.1	14.5
30°-40°	880.5	17.4
40°-50°	905.6	17.9
50°-60°	815.3	16.1
60°-70°	621.0	12.3
70°-80°	354.0	7.0
80°-90°	92.2	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1398.9	27.6
0°-40°	2279.4	45.0
0°-60°	4000.3	78.9
0°-90°	5067.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5067.4	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	91
90°	0	0	0	0	0	



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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

(END OF REPORT)