

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: P511745

Luminaire Tested: **SQW-F-025U-125D-840-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511745
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-15,
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-025U-125D-840-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

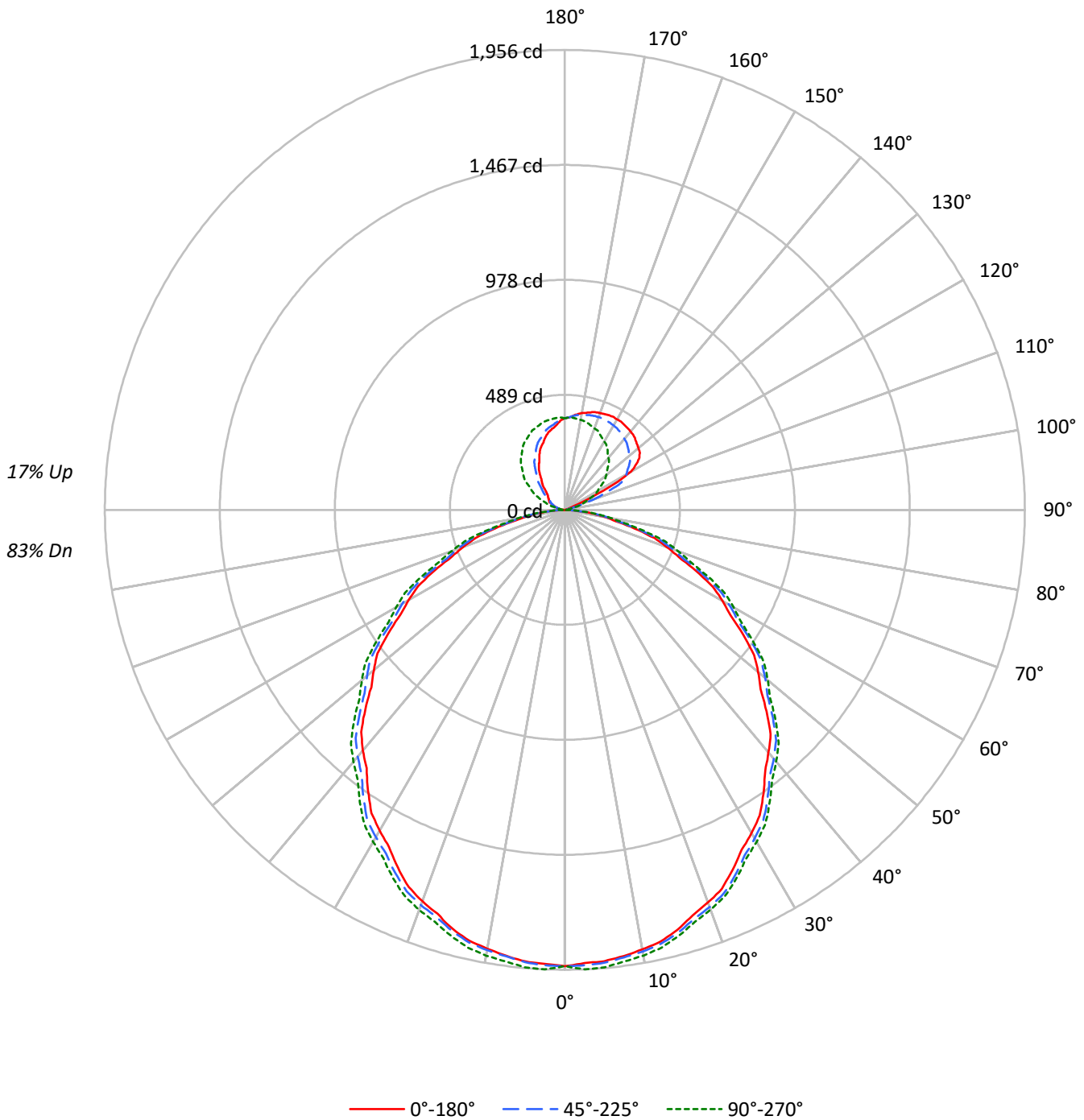
Lumens per Lamp: N/A
Luminaire Lumens: 6370.1 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 54.2
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	105	101	96	93	101	97	93	90	89	86	84	83	80	78	76	75	73	70
2	96	88	81	76	92	84	79	73	78	73	69	72	69	65	67	64	61	58
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	49
4	80	68	60	53	76	66	58	52	61	55	50	57	52	47	53	48	45	42
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	36
6	68	55	46	40	65	53	45	39	50	43	37	46	40	36	43	38	34	32
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28
8	58	45	37	31	56	44	36	31	41	34	30	39	33	28	36	31	27	25
9	54	41	33	28	52	40	33	28	38	31	27	36	30	26	33	28	25	23
10	51	38	31	25	49	37	30	25	35	29	24	33	27	23	31	26	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	62679	62679	62679
5°	62471	63297	62503
10°	62249	63121	62144
15°	61827	62683	61687
20°	61103	62203	60883
25°	60169	61572	59827
30°	59194	60782	58717
35°	58048	59853	57504
40°	56777	58931	56284
45°	55381	57861	54801
50°	53920	56592	53277
55°	52150	55089	51609
60°	49923	53430	49439
65°	47106	51332	46778
70°	43525	48350	43223
75°	38253	43706	38391
80°	30888	36225	31688
85°	17747	24861	21304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	2.9
10°-20°	522.9	8.2
20°-30°	783.7	12.3
30°-40°	932.0	14.6
40°-50°	954.4	15.0
50°-60°	850.9	13.4
60°-70°	635.7	10.0
70°-80°	348.3	5.5
80°-90°	81.7	1.3
90°-100°	9.5	0.1
100°-110°	43.7	0.7
110°-120°	126.7	2.0
120°-130°	191.3	3.0
130°-140°	204.8	3.2
140°-150°	195.7	3.1
150°-160°	162.0	2.5
160°-170°	106.4	1.7
170°-180°	36.9	0.6
0°-30°	1490.0	23.4
0°-40°	2422.1	38.0
0°-60°	4227.4	66.4
0°-90°	5293.0	83.1
90°-120°	180.0	2.8
90°-150°	771.7	12.1
90°-180°	1077.0	16.9
0°-180°	6370.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1941	1941	1941	1941	1941	
5°	1927	1934	1953	1931	1928	183
15°	1849	1862	1875	1854	1845	521
25°	1689	1714	1728	1706	1679	778
35°	1472	1502	1518	1493	1459	920
45°	1213	1251	1267	1236	1200	935
55°	926	962	978	952	917	827
65°	616	646	672	641	612	610
75°	307	330	350	327	308	327
85°	48	64	67	66	58	68
90°	1	1	0	1	2	1
95°	3	3	8	13	11	3
105°	12	29	50	33	35	14
115°	100	253	124	62	68	134
125°	388	335	196	92	85	339
135°	424	379	260	154	117	328
145°	441	407	316	222	185	277
155°	444	420	354	288	256	205
165°	429	416	381	339	319	122
175°	400	400	393	376	366	39
180°	390	390	390	390	390	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0
2.5°	1929.1	1938.3	1939.3	1938.0	1956.3	1938.9	1939.3	1937.5	1932.5
5°	1927.2	1929.3	1933.6	1930.9	1952.7	1929.8	1931.4	1927.2	1928.2
7.5°	1913.8	1915.2	1919.9	1914.9	1937.0	1914.7	1915.3	1910.8	1913.1
10°	1898.4	1901.6	1908.0	1902.1	1925.0	1901.1	1901.6	1896.3	1895.2
12.5°	1881.4	1882.8	1891.0	1885.1	1906.3	1883.2	1884.6	1876.7	1877.3
15°	1849.4	1854.7	1862.2	1853.1	1875.0	1852.1	1853.7	1846.2	1845.2
17.5°	1807.9	1817.1	1824.7	1815.7	1837.3	1813.8	1815.2	1804.9	1801.5
20°	1778.1	1786.4	1798.3	1789.2	1810.1	1784.0	1788.8	1771.7	1771.7
22.5°	1744.9	1749.9	1766.8	1756.9	1778.5	1752.5	1756.4	1735.1	1735.9
25°	1688.7	1696.0	1714.2	1706.2	1728.1	1701.0	1705.7	1681.2	1679.1
27.5°	1629.3	1637.8	1656.7	1649.3	1671.0	1644.1	1647.6	1620.7	1617.3
30°	1587.5	1596.9	1614.1	1609.3	1630.1	1604.1	1606.7	1578.9	1574.7
32.5°	1541.5	1552.6	1569.8	1569.2	1586.7	1563.1	1563.2	1534.6	1529.6
35°	1472.5	1482.9	1502.3	1502.7	1518.3	1494.4	1492.8	1464.9	1458.7
37.5°	1398.9	1410.7	1430.6	1433.2	1447.4	1425.1	1418.7	1390.9	1385.4
40°	1346.9	1360.4	1382.0	1385.5	1398.0	1374.1	1369.3	1341.4	1335.2
42.5°	1294.9	1308.5	1330.1	1335.2	1346.0	1326.3	1316.4	1288.6	1281.5
45°	1212.7	1227.3	1251.1	1258.7	1267.0	1249.3	1236.2	1208.3	1200.0
47.5°	1129.5	1143.0	1167.8	1178.4	1183.6	1168.6	1154.8	1125.9	1116.7
50°	1073.3	1086.8	1111.6	1121.3	1126.5	1114.0	1097.7	1068.8	1060.5
52.5°	1014.5	1028.0	1052.8	1064.2	1068.6	1057.7	1041.5	1012.6	1004.3
55°	926.3	937.8	962.5	976.4	978.5	971.2	951.9	924.0	916.7
57.5°	834.3	845.6	870.1	885.1	888.6	881.3	860.7	833.1	826.9
60°	773.0	783.4	807.1	822.1	827.3	820.0	798.6	771.8	765.5
62.5°	710.8	720.4	743.2	759.1	766.0	757.9	735.5	709.6	703.4
65°	616.5	624.8	646.3	667.7	671.8	662.5	641.0	616.4	612.2
67.5°	523.2	529.5	549.6	570.6	576.0	566.4	544.3	523.3	518.3
70°	461.0	467.3	486.6	505.9	512.1	501.7	481.3	462.0	457.8
72.5°	398.9	404.3	423.6	441.2	447.4	438.7	418.2	400.7	396.5
75°	306.6	312.9	330.1	346.1	350.3	344.1	326.9	311.9	307.7
77.5°	220.6	224.6	239.4	251.8	255.3	250.7	237.6	224.4	222.3
80°	166.1	169.2	183.1	193.8	194.8	192.8	183.1	172.4	170.4
82.5°	115.8	119.8	132.9	141.8	139.5	140.7	133.7	123.9	122.7
85°	47.9	50.0	63.9	72.3	67.1	72.3	66.0	58.5	57.5
87.5°	5.3	6.2	11.3	20.4	17.9	22.1	18.1	13.0	13.2
90°	1.1	1.1	1.1	0.0	0.0	0.0	1.1	1.1	2.1
92.5°	1.1	1.9	1.1	1.7	1.7	4.2	3.6	2.8	3.0
95°	3.2	3.2	3.2	7.5	7.5	10.7	12.9	11.8	10.7
97.5°	4.7	4.7	6.2	21.2	16.7	14.2	20.0	20.6	20.6
100°	6.4	6.4	9.7	33.1	23.6	19.4	22.5	25.8	25.8
102.5°	8.2	9.0	14.8	51.7	33.1	23.8	26.0	28.4	29.2
105°	11.8	12.9	29.0	88.2	50.5	32.6	33.3	34.4	35.4
107.5°	17.6	21.8	72.8	126.1	71.5	42.1	44.4	42.5	42.5
110°	23.6	32.0	123.5	149.9	87.0	49.2	50.5	49.4	49.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	37.4	62.5	184.4	169.6	102.4	57.9	55.6	57.9	56.3
115°	99.8	162.8	253.3	196.9	124.5	72.0	62.3	66.6	67.6
117.5°	237.9	284.7	287.3	219.9	147.3	87.9	67.6	72.6	74.7
120°	326.3	333.7	302.7	234.5	161.0	99.1	71.9	75.2	77.3
122.5°	359.8	352.9	316.5	248.2	174.8	112.0	78.8	78.6	80.7
125°	387.5	372.8	334.9	268.9	196.4	132.4	92.3	83.8	84.8
127.5°	401.3	386.6	350.2	285.9	216.8	154.1	109.3	91.0	90.2
130°	409.0	394.3	359.6	298.0	229.7	167.8	121.3	98.7	94.5
132.5°	415.9	402.0	368.2	307.5	242.6	180.7	134.2	108.1	102.2
135°	424.0	410.4	378.9	321.7	259.8	201.0	153.5	125.4	117.0
137.5°	431.3	418.7	388.8	334.5	277.8	219.2	173.0	145.8	136.5
140°	434.8	422.2	394.0	342.3	289.8	232.1	186.8	158.7	150.3
142.5°	438.2	426.4	399.1	350.1	300.1	244.9	200.5	172.4	164.0
145°	441.2	430.7	406.9	360.7	315.6	263.1	222.2	193.0	184.6
147.5°	444.4	433.3	411.8	369.8	328.3	281.0	241.7	213.7	205.5
150°	444.4	435.0	414.4	375.9	336.0	293.0	255.5	227.4	220.1
152.5°	445.3	435.0	416.9	381.1	344.6	304.1	268.4	241.2	234.7
155°	444.4	435.0	419.7	387.8	354.3	318.6	287.7	261.8	255.5
157.5°	440.6	434.5	419.7	391.8	364.1	331.4	304.4	284.1	275.2
160°	438.0	432.7	419.7	394.5	369.3	339.9	315.6	296.1	289.8
162.5°	435.4	430.2	418.9	397.1	374.4	347.6	325.1	306.5	301.9
165°	429.4	425.2	416.5	398.9	381.1	358.0	339.2	323.0	318.8
167.5°	422.7	419.8	412.6	400.1	386.0	368.0	351.7	339.1	334.3
170°	417.6	415.5	410.1	400.1	388.6	373.9	358.5	347.7	344.6
172.5°	410.7	409.5	406.6	398.5	390.3	378.1	366.3	356.3	353.2
175°	400.4	400.4	400.4	397.1	392.9	384.5	375.7	368.2	366.1
177.5°	392.3	393.1	394.0	393.1	393.1	388.9	384.5	380.2	381.1
180°	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7

(END OF REPORT)