

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: P511805

Luminaire Tested: **SQW-F-075U-125D-840-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511805
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-17,
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-075U-125D-840-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

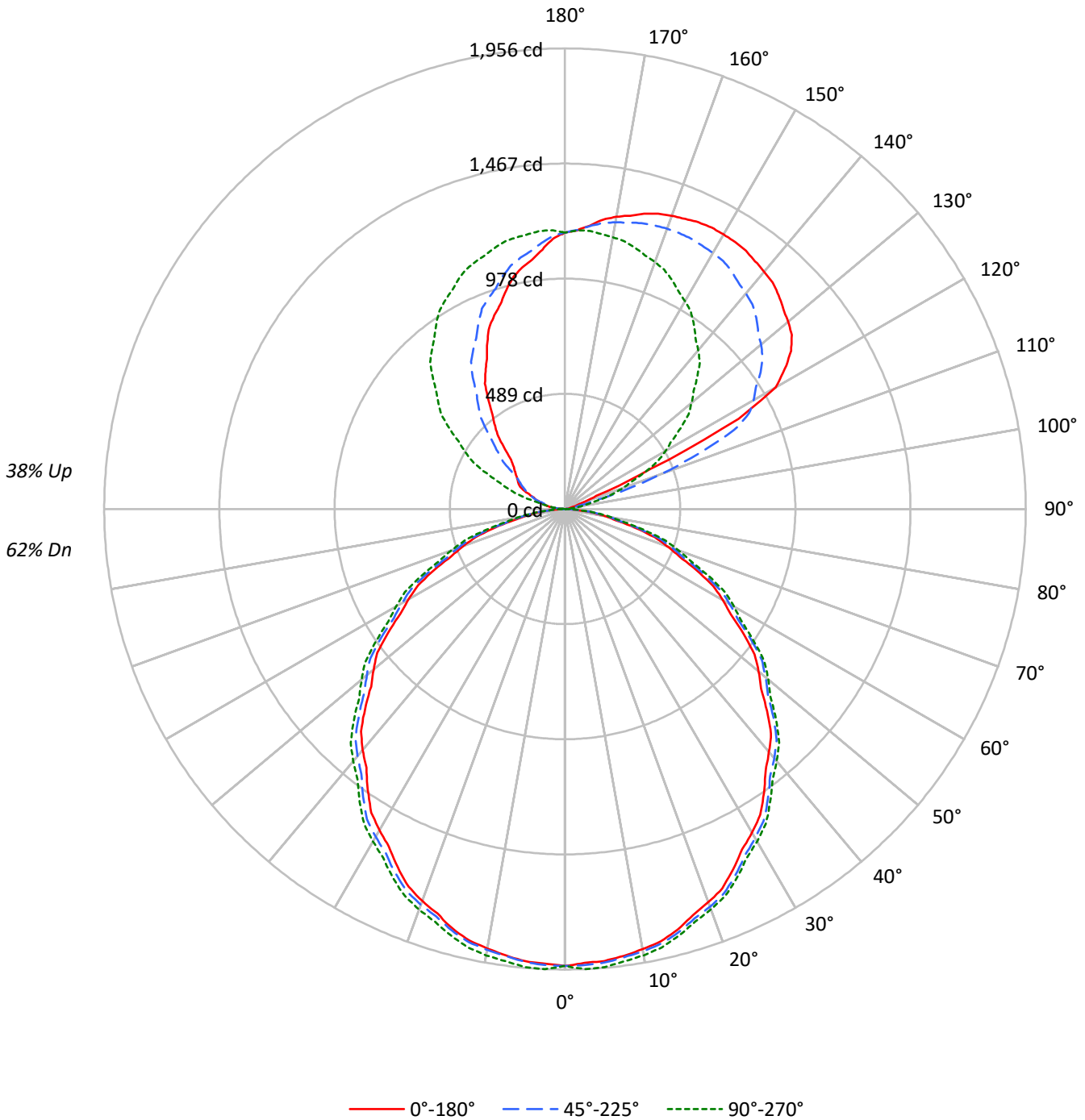
Lumens per Lamp: N/A
Luminaire Lumens: 8583.3 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 67.4
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	100	96	92	88	94	90	87	83	79	76	74	69	67	65	59	58	56	52
2	91	84	77	72	85	79	73	68	69	65	61	60	57	54	52	49	47	43
3	83	74	66	60	78	69	62	57	61	55	51	53	49	46	46	43	40	37
4	76	65	57	51	71	61	54	48	54	48	44	47	43	39	41	37	35	31
5	70	58	50	43	65	55	47	41	48	42	38	42	38	34	37	33	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	30	33	29	26	24
7	60	47	39	33	56	44	37	32	39	33	29	35	30	26	30	26	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	52	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	23	30	25	21	27	22	19	24	20	17	15

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	2.1
10°-20°	522.9	6.1
20°-30°	783.7	9.1
30°-40°	932.0	10.9
40°-50°	954.4	11.1
50°-60°	850.9	9.9
60°-70°	635.7	7.4
70°-80°	348.3	4.1
80°-90°	82.2	1.0
90°-100°	29.6	0.3
100°-110°	137.3	1.6
110°-120°	400.2	4.7
120°-130°	581.6	6.8
130°-140°	622.3	7.3
140°-150°	595.4	6.9
150°-160°	490.9	5.7
160°-170°	321.1	3.7
170°-180°	111.3	1.3
0°-30°	1490.0	17.4
0°-40°	2422.1	28.2
0°-60°	4227.4	49.3
0°-90°	5293.5	61.7
90°-120°	567.1	6.6
90°-150°	2366.4	27.6
90°-180°	3290.0	38.3
0°-180°	8583.3	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°	2	2	1	4	9	2
95°	9	11	22	36	33	10
105°	36	106	152	97	105	44
115°	403	792	381	182	201	473
125°	1172	1013	600	278	254	1036
135°	1283	1149	794	468	359	990
145°	1339	1233	954	681	568	838
155°	1343	1267	1074	870	780	620
165°	1298	1257	1149	1022	962	368
175°	1208	1206	1185	1134	1106	117
180°	1174	1174	1174	1174	1174	



TEST NUMBER: P511805

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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°	5.6	6.4	11.5	20.6	18.1	22.5	18.8	14.3	14.5
90°	2.2	2.2	2.2	1.1	1.1	2.2	4.4	7.7	8.8
92.5°	4.0	4.8	4.9	5.5	6.4	12.7	8.8	10.4	10.6
95°	8.8	8.8	11.0	26.4	22.1	32.9	36.4	34.2	33.1
97.5°	14.6	15.6	21.4	69.3	49.7	44.0	60.0	64.1	60.3
100°	19.9	20.9	32.0	109.5	71.7	56.6	66.2	78.4	80.6
102.5°	26.0	28.0	49.7	168.8	100.9	71.9	75.9	87.2	90.3
105°	36.4	41.8	105.9	279.6	152.3	95.1	97.1	100.5	104.8
107.5°	56.5	75.9	269.0	396.9	215.6	124.8	129.1	126.0	126.2
110°	79.5	120.5	440.3	464.4	261.5	148.2	146.8	144.5	141.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	143.9	252.2	613.3	524.2	310.1	173.5	160.9	170.9	164.2
115°	402.8	611.0	792.3	606.2	380.7	216.7	182.1	196.5	200.8
117.5°	830.7	925.0	881.5	679.1	448.2	267.2	202.4	212.7	219.8
120°	1032.9	1029.6	924.7	724.2	493.3	304.4	217.4	224.1	229.5
122.5°	1107.0	1076.2	960.9	764.8	536.5	344.3	237.7	233.9	240.1
125°	1171.9	1129.8	1013.0	820.4	600.3	405.0	278.1	249.5	253.8
127.5°	1214.1	1167.9	1057.6	871.4	662.1	469.4	331.5	274.2	269.0
130°	1237.0	1191.7	1085.9	902.5	701.8	510.9	368.6	298.8	285.8
132.5°	1256.5	1213.7	1112.3	932.7	740.7	553.1	408.3	329.5	310.5
135°	1283.4	1242.4	1148.8	976.9	794.5	614.3	467.9	385.6	358.6
137.5°	1303.9	1266.6	1177.4	1016.4	846.8	674.6	530.3	447.6	420.0
140°	1315.4	1279.8	1195.1	1041.3	879.5	713.3	572.7	488.3	462.4
142.5°	1326.0	1291.2	1210.1	1063.6	910.4	750.3	616.0	529.8	503.9
145°	1338.6	1305.1	1232.6	1095.9	954.5	805.6	680.9	593.1	568.3
147.5°	1344.5	1313.7	1248.7	1124.6	994.0	856.8	741.1	656.9	631.9
150°	1346.3	1317.1	1255.8	1141.6	1019.6	890.2	779.1	700.1	674.2
152.5°	1347.2	1317.2	1261.1	1155.9	1042.6	920.0	816.2	741.7	717.5
155°	1343.0	1316.0	1266.8	1173.0	1073.7	962.6	869.6	801.8	780.2
157.5°	1333.3	1313.4	1267.7	1187.4	1099.8	1002.4	920.3	858.3	838.0
160°	1325.3	1308.0	1266.8	1195.5	1115.6	1026.1	951.2	894.5	875.1
162.5°	1314.7	1297.5	1262.4	1199.3	1129.8	1048.0	980.4	926.4	910.4
165°	1297.7	1281.5	1256.9	1204.9	1148.8	1080.8	1021.8	975.2	962.3
167.5°	1276.1	1266.0	1244.8	1207.1	1164.0	1109.0	1059.8	1021.8	1010.8
170°	1260.2	1252.7	1235.9	1206.5	1171.9	1125.5	1083.6	1049.3	1041.7
172.5°	1239.9	1235.8	1224.5	1203.1	1178.1	1140.3	1104.8	1074.9	1067.3
175°	1208.3	1210.5	1206.1	1198.1	1185.2	1159.3	1134.4	1113.3	1105.7
177.5°	1184.7	1184.7	1185.6	1186.5	1184.7	1173.5	1160.9	1148.6	1149.4
180°	1174.1	1174.1	1174.1	1174.1	1174.1	1174.1	1174.1	1174.1	1174.1

(END OF REPORT)