

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: P522359

Luminaire Tested: **SQW-F-050U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522359
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-050U-100D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

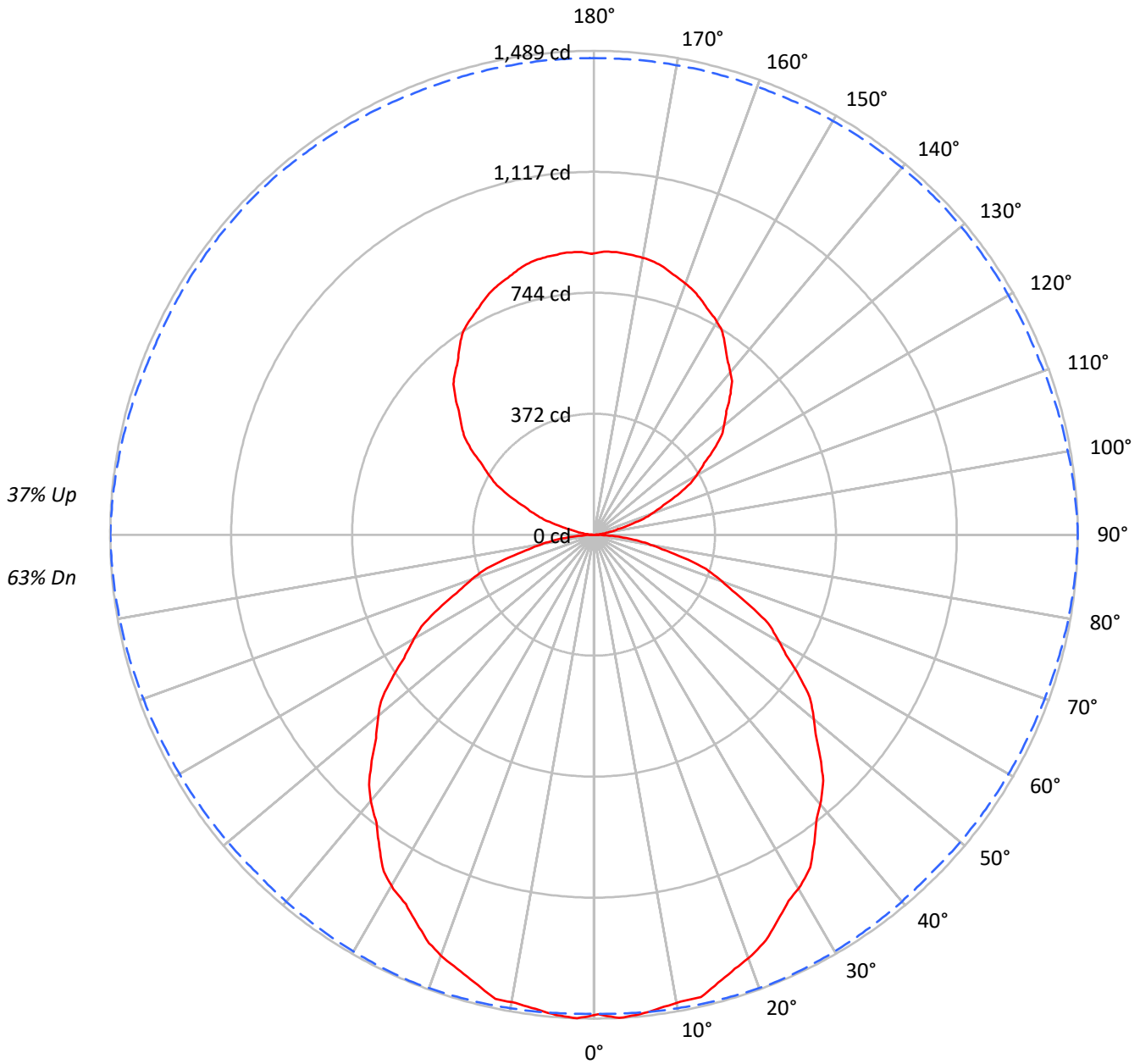
Lumens per Lamp: N/A
Luminaire Lumens: 6538.1 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 61.8
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	91	91	91	79	79	79	68	68	68	63
1	101	96	92	88	94	90	87	84	79	77	74	69	67	65	60	59	57	53
2	91	84	77	72	85	79	73	68	69	65	61	61	57	54	53	50	48	44
3	83	73	66	60	78	69	62	57	61	56	51	53	49	46	46	43	41	37
4	76	65	57	50	71	61	54	48	54	48	44	48	43	39	41	38	35	32
5	70	58	49	43	65	55	47	41	48	42	38	43	38	34	37	33	30	27
6	64	52	44	37	60	49	41	36	44	37	33	38	33	30	34	30	27	24
7	60	47	39	33	56	44	37	32	40	33	29	35	30	26	31	27	24	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	25	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°	23831	23831	23831
5°	24114	24026	23663
10°	23866	23953	23620
15°	23957	23920	23473
20°	23392	23759	22931
25°	23357	23414	22556
30°	23066	23364	22326
35°	22527	22992	21936
40°	22306	22689	21492
45°	22085	22281	21107
50°	21308	21981	20502
55°	21106	21560	19781
60°	20166	20925	19059
65°	19274	20256	18086
70°	18406	19317	16891
75°	17105	17773	15234
80°	14644	15537	12748
85°	10911	12097	8725



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	2.1
10°-20°	399.5	6.1
20°-30°	599.8	9.2
30°-40°	717.0	11.0
40°-50°	737.8	11.3
50°-60°	664.2	10.2
60°-70°	504.4	7.7
70°-80°	287.8	4.4
80°-90°	75.3	1.2
90°-100°	22.7	0.3
100°-110°	98.4	1.5
110°-120°	280.6	4.3
120°-130°	426.7	6.5
130°-140°	461.5	7.1
140°-150°	441.0	6.7
150°-160°	362.7	5.5
160°-170°	237.0	3.6
170°-180°	82.0	1.3
0°-30°	1139.0	17.4
0°-40°	1856.0	28.4
0°-60°	3258.0	49.8
0°-90°	4125.6	63.1
90°-120°	401.7	6.1
90°-150°	1730.9	26.5
90°-180°	2413.0	36.9
0°-180°	6538.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1476	1476	1476	1476	1476	
5°	1488	1476	1482	1457	1460	140
15°	1433	1425	1431	1411	1404	400
25°	1311	1319	1314	1300	1266	602
35°	1143	1171	1166	1141	1113	720
45°	967	975	976	954	924	739
55°	750	763	766	735	703	664
65°	504	518	530	494	473	502
75°	274	282	285	260	244	287
85°	59	68	65	59	47	71
90°	0	0	0	0	0	2
95°	4	5	15	37	34	5
105°	23	58	114	78	84	26
115°	207	550	284	135	153	285
125°	825	726	454	223	192	725
135°	913	826	597	371	294	704
145°	951	890	712	527	449	596
155°	962	920	795	660	599	445
165°	940	919	851	763	728	267
175°	885	887	872	840	818	86
180°	865	865	865	865	865	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0
2.5°	1474.3	1486.0	1470.0	1474.6	1488.9	1471.3	1476.0	1467.4	1466.6
5°	1487.8	1470.0	1476.0	1467.8	1482.4	1468.8	1456.7	1472.5	1460.0
7.5°	1462.5	1451.0	1474.5	1462.7	1470.5	1461.2	1462.5	1453.7	1453.5
10°	1455.7	1448.3	1455.7	1455.8	1461.0	1448.5	1447.1	1437.5	1440.7
12.5°	1436.0	1446.2	1435.1	1449.1	1460.2	1438.4	1430.0	1433.3	1439.0
15°	1433.2	1430.0	1424.6	1420.6	1431.0	1405.9	1410.7	1401.1	1404.3
17.5°	1389.7	1395.6	1398.3	1394.8	1404.3	1381.4	1376.0	1376.0	1377.5
20°	1361.4	1374.0	1382.8	1373.4	1382.8	1365.0	1361.4	1348.2	1334.6
22.5°	1346.0	1343.5	1361.4	1342.6	1355.4	1333.4	1343.4	1320.4	1327.8
25°	1311.1	1300.6	1318.6	1308.0	1314.3	1296.5	1300.4	1272.4	1266.1
27.5°	1264.6	1264.6	1275.5	1271.1	1275.5	1261.3	1257.3	1231.7	1229.2
30°	1237.2	1228.8	1248.9	1239.6	1253.2	1219.7	1222.2	1201.7	1197.5
32.5°	1200.3	1203.7	1217.2	1205.4	1221.5	1189.7	1195.6	1164.2	1169.2
35°	1142.9	1149.2	1170.7	1154.9	1166.5	1147.6	1140.8	1120.2	1112.9
37.5°	1106.3	1096.6	1107.1	1108.1	1111.6	1090.9	1083.3	1058.5	1060.9
40°	1058.3	1056.2	1071.1	1075.4	1076.5	1056.6	1050.8	1020.8	1019.7
42.5°	1014.6	1016.7	1029.1	1034.3	1034.5	1014.6	1013.9	981.5	985.4
45°	967.2	964.1	974.7	973.7	975.8	954.9	954.4	923.3	924.4
47.5°	892.9	899.6	906.8	908.9	917.1	899.3	886.7	862.0	858.2
50°	848.3	860.9	862.3	872.0	875.1	853.1	843.0	822.5	816.2
52.5°	808.9	815.6	821.1	827.5	832.3	812.0	796.7	777.2	775.9
55°	749.8	745.6	762.6	760.6	765.9	750.2	734.8	713.1	702.7
57.5°	673.3	681.5	685.3	693.3	696.9	679.7	666.2	643.3	642.5
60°	624.5	636.0	637.3	651.2	648.0	633.4	619.1	598.6	590.2
62.5°	579.9	583.1	591.9	601.6	602.6	586.3	575.4	553.2	547.3
65°	504.5	510.8	518.4	531.3	530.2	518.7	493.8	481.8	473.4
67.5°	436.2	438.3	448.6	454.7	458.9	443.0	428.7	411.9	408.3
70°	389.9	387.8	400.6	405.0	409.2	396.6	382.4	367.2	357.8
72.5°	339.3	341.4	350.9	357.8	360.3	347.8	332.7	321.0	314.9
75°	274.2	272.1	281.7	286.0	284.9	275.5	260.3	252.6	244.2
77.5°	202.0	206.2	211.9	215.7	214.2	207.9	196.0	184.4	180.8
80°	157.5	161.6	168.2	170.2	167.1	160.8	153.2	142.3	137.1
82.5°	116.3	118.8	125.3	129.1	124.3	120.5	113.8	105.5	99.4
85°	58.9	61.0	67.5	69.5	65.3	65.3	58.9	51.3	47.1
87.5°	13.7	14.5	19.7	25.6	20.6	22.2	17.1	12.8	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.2	1.2	1.2	2.4	3.5	12.7	14.1	12.3	12.3
95°	3.7	3.7	5.1	16.1	15.4	26.2	36.7	34.5	34.5
97.5°	7.5	8.2	11.7	47.7	36.0	35.0	49.6	55.2	56.2
100°	11.0	11.7	17.6	78.0	53.6	45.7	54.3	64.6	66.8
102.5°	15.1	16.4	28.2	122.7	75.3	53.6	61.9	71.1	73.8
105°	22.8	24.9	58.0	205.6	113.8	70.0	77.8	81.5	83.7
107.5°	33.8	42.5	156.2	288.9	161.5	92.4	100.7	100.2	102.0
110°	45.5	63.4	270.1	334.5	196.7	109.9	110.1	115.9	113.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	75.5	126.1	402.8	378.3	231.9	130.7	118.9	131.8	132.6
115°	207.0	355.5	550.5	439.8	284.0	167.8	135.0	147.6	152.7
117.5°	513.2	618.5	626.1	494.3	336.0	209.1	153.5	159.1	165.7
120°	695.8	717.3	661.3	527.8	370.6	238.6	168.8	166.8	173.9
122.5°	767.4	759.7	690.1	559.0	404.7	269.8	187.6	176.1	181.0
125°	825.0	804.9	725.9	602.2	454.3	316.5	223.1	191.6	191.6
127.5°	859.3	835.9	758.8	640.5	499.1	363.7	265.8	216.7	209.9
130°	879.3	854.2	778.7	667.0	528.4	394.2	295.8	238.3	227.5
132.5°	894.5	871.7	797.5	687.7	557.2	424.2	325.7	265.1	247.5
135°	913.0	893.7	826.4	719.4	597.4	469.0	370.6	311.5	293.6
137.5°	924.9	909.9	852.4	745.5	634.7	513.4	416.0	356.6	340.4
140°	931.4	919.2	865.3	761.0	657.6	542.1	447.7	387.2	372.1
142.5°	937.9	927.9	874.7	778.1	679.9	570.7	478.8	418.3	402.1
145°	951.2	939.7	890.3	798.8	711.9	610.8	527.0	463.5	449.2
147.5°	960.6	946.8	903.1	821.0	742.2	647.0	571.2	509.9	495.7
150°	963.0	948.6	910.1	832.9	760.4	669.2	598.2	539.9	526.2
152.5°	961.2	950.3	915.4	843.0	775.6	690.8	622.8	568.7	556.2
155°	962.2	952.2	919.6	856.6	794.9	721.0	659.8	611.8	598.9
157.5°	957.8	951.2	922.6	867.0	812.6	747.9	693.7	653.4	640.3
160°	957.8	947.8	922.6	873.1	825.0	765.4	714.9	678.7	667.9
162.5°	951.4	942.5	922.0	877.3	836.7	781.7	734.8	701.0	693.1
165°	939.5	932.3	918.9	883.0	851.4	804.0	763.3	733.1	728.1
167.5°	930.2	920.3	913.0	882.8	861.4	820.0	787.4	762.4	759.5
170°	919.6	913.2	907.2	881.1	866.1	831.6	804.4	779.4	776.5
172.5°	906.1	902.6	899.5	880.1	869.0	841.4	819.1	796.4	791.2
175°	885.2	888.0	887.4	877.7	871.9	854.0	840.4	824.1	817.6
177.5°	872.2	871.1	874.0	872.2	871.6	860.7	857.0	845.9	849.3
180°	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6

(END OF REPORT)