

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: P522397

Luminaire Tested: **SQW-F-075U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522397
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-075U-100D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

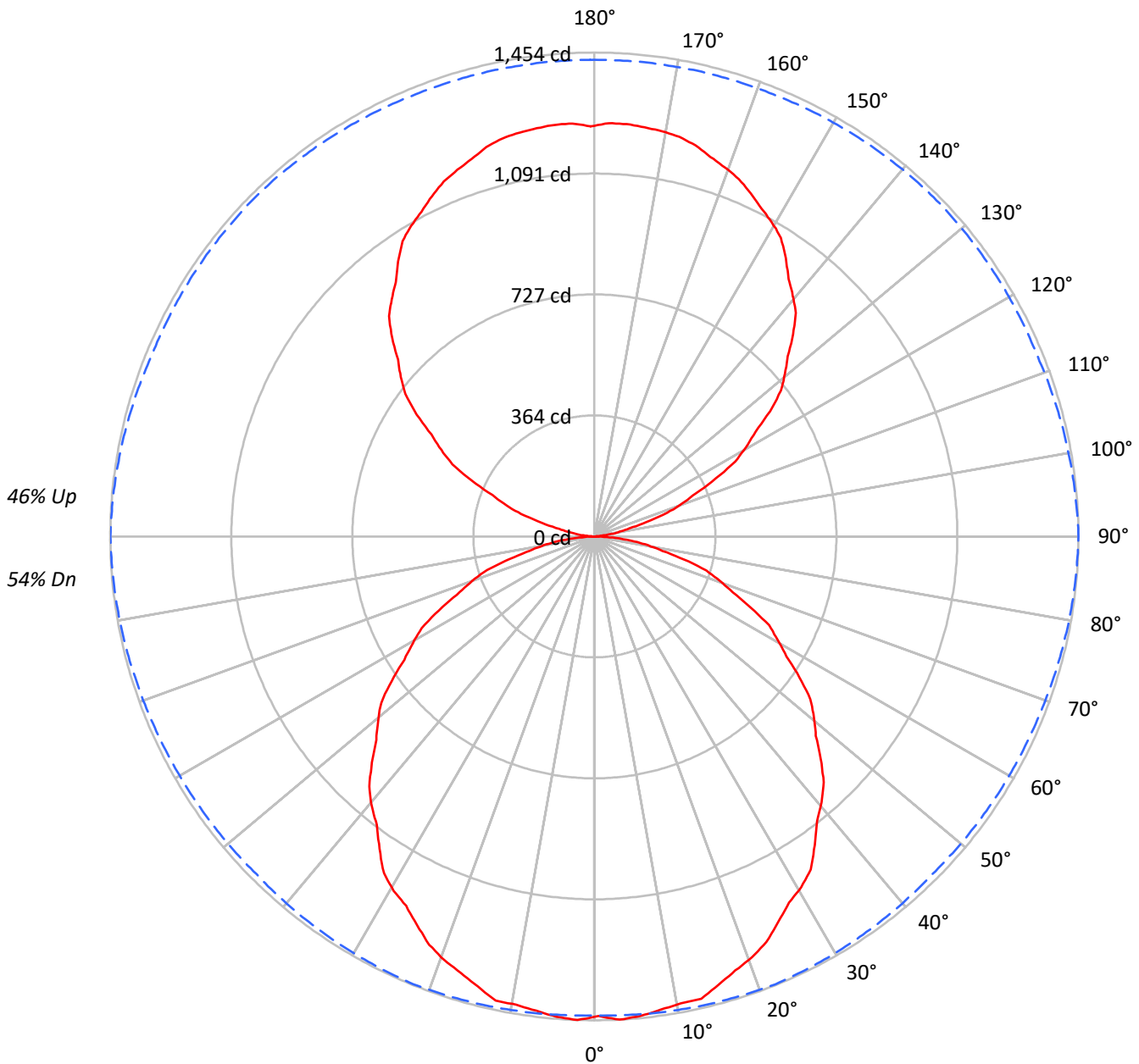
Lumens per Lamp: N/A
Luminaire Lumens: 7468.2 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 70.1
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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	99	94	90	87	91	87	84	81	75	72	70	63	61	60	53	51	50	45
2	90	82	76	70	83	76	71	66	65	61	58	55	52	50	46	44	42	38
3	82	72	64	59	75	67	60	55	58	52	48	49	45	42	41	38	36	32
4	75	64	56	49	69	59	52	47	51	45	41	43	39	36	36	33	31	27
5	68	57	48	42	63	53	45	40	46	40	35	39	34	31	33	29	27	23
6	63	51	42	37	58	47	40	35	41	35	31	35	30	27	30	26	23	20
7	58	46	38	32	54	43	36	30	37	31	27	32	27	24	27	23	21	18
8	54	42	34	28	50	39	32	27	34	28	24	29	25	21	25	21	18	16
9	50	38	30	25	47	36	29	24	31	25	21	27	22	19	23	19	17	14
10	47	35	27	23	44	33	26	21	29	23	19	25	20	17	21	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23276	23276	23276
5°	23551	23467	23110
10°	23309	23396	23069
15°	23398	23363	22925
20°	22847	23206	22397
25°	22812	22869	22030
30°	22527	22820	21806
35°	22003	22456	21425
40°	21785	22160	20993
45°	21571	21763	20614
50°	20813	21469	20024
55°	20614	21056	19319
60°	19695	20437	18613
65°	18823	19786	17666
70°	17977	18864	16494
75°	16706	17361	14878
80°	14300	15174	12450
85°	10652	11819	8522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	1.8
10°-20°	390.2	5.2
20°-30°	585.8	7.8
30°-40°	700.3	9.4
40°-50°	720.6	9.6
50°-60°	648.7	8.7
60°-70°	492.7	6.6
70°-80°	281.1	3.8
80°-90°	73.6	1.0
90°-100°	32.4	0.4
100°-110°	140.3	1.9
110°-120°	400.0	5.4
120°-130°	608.2	8.1
130°-140°	657.8	8.8
140°-150°	628.5	8.4
150°-160°	517.0	6.9
160°-170°	337.8	4.5
170°-180°	116.8	1.6
0°-30°	1112.5	14.9
0°-40°	1812.7	24.3
0°-60°	3182.0	42.6
0°-90°	4029.4	54.0
90°-120°	572.7	7.7
90°-150°	2467.2	33.0
90°-180°	3439.0	46.0
0°-180°	7468.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1442	1442	1442	1442	1442	
5°	1453	1442	1448	1423	1426	137
15°	1400	1391	1398	1378	1372	391
25°	1280	1288	1284	1270	1237	588
35°	1116	1144	1139	1114	1087	703
45°	945	952	953	932	903	722
55°	732	745	748	718	686	648
65°	493	506	518	482	462	490
75°	268	275	278	254	238	280
85°	58	66	64	58	46	69
90°	0	0	0	0	0	2
95°	5	7	22	52	49	7
105°	32	83	162	111	119	37
115°	295	785	405	192	218	406
125°	1176	1035	648	318	273	1033
135°	1301	1178	852	528	418	1003
145°	1356	1269	1015	751	640	849
155°	1372	1311	1133	940	854	634
165°	1339	1310	1214	1088	1038	381
175°	1262	1265	1243	1198	1165	122
180°	1232	1232	1232	1232	1232	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6
2.5°	1439.9	1451.4	1435.8	1440.3	1454.2	1437.0	1441.6	1433.2	1432.4
5°	1453.1	1435.7	1441.6	1433.6	1447.9	1434.6	1422.8	1438.2	1425.9
7.5°	1428.4	1417.2	1440.2	1428.6	1436.2	1427.2	1428.4	1419.9	1419.7
10°	1421.7	1414.6	1421.7	1421.9	1427.0	1414.7	1413.4	1404.0	1407.1
12.5°	1402.5	1412.5	1401.7	1415.3	1426.1	1404.9	1396.6	1399.9	1405.4
15°	1399.8	1396.7	1391.4	1387.5	1397.7	1373.1	1377.8	1368.5	1371.5
17.5°	1357.3	1363.0	1365.7	1362.3	1371.5	1349.2	1343.9	1343.9	1345.4
20°	1329.7	1342.0	1350.6	1341.4	1350.6	1333.2	1329.7	1316.8	1303.5
22.5°	1314.6	1312.2	1329.7	1311.3	1323.8	1302.3	1312.1	1289.7	1296.8
25°	1280.5	1270.3	1287.8	1277.5	1283.7	1266.3	1270.1	1242.7	1236.6
27.5°	1235.1	1235.1	1245.8	1241.5	1245.8	1231.9	1228.0	1203.0	1200.6
30°	1208.3	1200.1	1219.8	1210.7	1224.0	1191.3	1193.7	1173.7	1169.6
32.5°	1172.3	1175.6	1188.9	1177.3	1193.1	1162.0	1167.7	1137.1	1142.0
35°	1116.3	1122.4	1143.5	1128.0	1139.3	1120.9	1114.2	1094.1	1087.0
37.5°	1080.5	1071.1	1081.3	1082.2	1085.7	1065.5	1058.1	1033.9	1036.1
40°	1033.6	1031.6	1046.2	1050.4	1051.4	1032.0	1026.3	997.0	996.0
42.5°	990.9	993.0	1005.2	1010.2	1010.4	991.0	990.3	958.6	962.5
45°	944.7	941.6	952.0	951.0	953.1	932.6	932.1	901.8	902.8
47.5°	872.1	878.6	885.7	887.8	895.7	878.3	866.0	841.9	838.2
50°	828.6	840.8	842.2	851.7	854.7	833.2	823.3	803.3	797.2
52.5°	790.1	796.6	802.0	808.2	812.9	793.0	778.1	759.1	757.8
55°	732.3	728.2	744.9	742.9	748.0	732.7	717.7	696.5	686.3
57.5°	657.6	665.6	669.3	677.2	680.6	663.9	650.7	628.3	627.5
60°	609.9	621.2	622.5	636.0	632.9	618.6	604.7	584.6	576.4
62.5°	566.4	569.5	578.1	587.6	588.6	572.6	562.0	540.3	534.6
65°	492.7	498.9	506.3	518.9	517.9	506.6	482.3	470.6	462.4
67.5°	426.0	428.0	438.1	444.1	448.2	432.6	418.7	402.3	398.8
70°	380.8	378.8	391.3	395.5	399.6	387.4	373.5	358.6	349.4
72.5°	331.4	333.5	342.7	349.5	351.9	339.7	324.9	313.5	307.6
75°	267.8	265.8	275.1	279.3	278.3	269.1	254.2	246.7	238.5
77.5°	197.3	201.4	206.9	210.7	209.2	203.1	191.4	180.1	176.6
80°	153.8	157.9	164.2	166.3	163.2	157.1	149.6	139.0	133.9
82.5°	113.6	116.1	122.4	126.1	121.4	117.7	111.1	103.0	97.1
85°	57.5	59.6	65.9	67.9	63.8	63.8	57.5	50.1	46.0
87.5°	13.4	14.2	19.2	25.0	20.1	21.7	16.7	12.5	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.7	1.7	1.7	3.4	5.0	18.1	20.1	17.6	17.6
95°	5.2	5.2	7.3	23.0	22.0	37.3	52.3	49.2	49.2
97.5°	10.7	11.7	16.7	68.0	51.3	49.8	70.7	78.7	80.1
100°	15.7	16.7	25.1	111.1	76.4	65.1	77.4	92.1	95.2
102.5°	21.6	23.4	40.2	174.8	107.3	76.4	88.3	101.4	105.2
105°	32.4	35.5	82.6	293.1	162.2	99.8	110.9	116.2	119.3
107.5°	48.1	60.6	222.6	411.8	230.2	131.8	143.5	142.8	145.4
110°	64.9	90.4	385.0	476.8	280.4	156.6	156.9	165.2	162.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	107.5	179.8	574.1	539.3	330.6	186.4	169.5	187.9	188.9
115°	295.0	506.8	784.6	626.8	404.9	239.2	192.5	210.4	217.6
117.5°	731.5	881.6	892.4	704.6	478.9	298.1	218.9	226.8	236.2
120°	991.8	1022.5	942.6	752.3	528.3	340.1	240.6	237.7	247.9
122.5°	1093.9	1082.8	983.6	796.8	576.9	384.5	267.4	251.0	258.0
125°	1175.9	1147.3	1034.7	858.3	647.6	451.2	318.0	273.1	273.1
127.5°	1224.9	1191.5	1081.5	912.9	711.4	518.5	378.9	308.8	299.2
130°	1253.3	1217.5	1110.0	950.7	753.2	562.0	421.6	339.7	324.3
132.5°	1275.1	1242.5	1136.8	980.2	794.3	604.6	464.3	377.9	352.8
135°	1301.4	1273.8	1178.0	1025.5	851.6	668.5	528.3	444.0	418.5
137.5°	1318.4	1296.9	1215.0	1062.7	904.7	731.9	593.0	508.3	485.2
140°	1327.6	1310.2	1233.4	1084.7	937.4	772.7	638.2	551.9	530.4
142.5°	1336.8	1322.7	1246.8	1109.1	969.2	813.5	682.5	596.2	573.1
145°	1355.8	1339.5	1269.0	1138.6	1014.8	870.6	751.1	660.7	640.3
147.5°	1369.2	1349.6	1287.2	1170.2	1057.9	922.2	814.1	726.8	706.6
150°	1372.6	1352.1	1297.2	1187.1	1083.8	953.9	852.6	769.5	750.1
152.5°	1370.1	1354.5	1304.8	1201.5	1105.6	984.7	887.8	810.6	792.8
155°	1371.5	1357.2	1310.8	1221.0	1133.0	1027.6	940.5	872.1	853.7
157.5°	1365.3	1355.8	1315.0	1235.9	1158.3	1066.1	988.8	931.3	912.7
160°	1365.3	1350.9	1315.0	1244.4	1175.9	1091.0	1019.0	967.4	952.0
162.5°	1356.0	1343.4	1314.2	1250.5	1192.6	1114.3	1047.4	999.3	988.0
165°	1339.1	1328.9	1309.8	1258.6	1213.6	1146.0	1088.0	1045.0	1037.8
167.5°	1325.9	1311.8	1301.4	1258.3	1227.8	1168.9	1122.3	1086.7	1082.6
170°	1310.8	1301.6	1293.1	1256.0	1234.5	1185.4	1146.6	1110.9	1106.8
172.5°	1291.6	1286.5	1282.2	1254.4	1238.7	1199.4	1167.5	1135.1	1127.8
175°	1261.7	1265.8	1264.8	1251.0	1242.8	1217.3	1197.9	1174.6	1165.4
177.5°	1243.3	1241.6	1245.8	1243.2	1242.4	1226.9	1221.5	1205.7	1210.6
180°	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4

(END OF REPORT)