

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: P522556

Luminaire Tested: **SQW-F-075U-100D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522556
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-075U-100D-93050-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

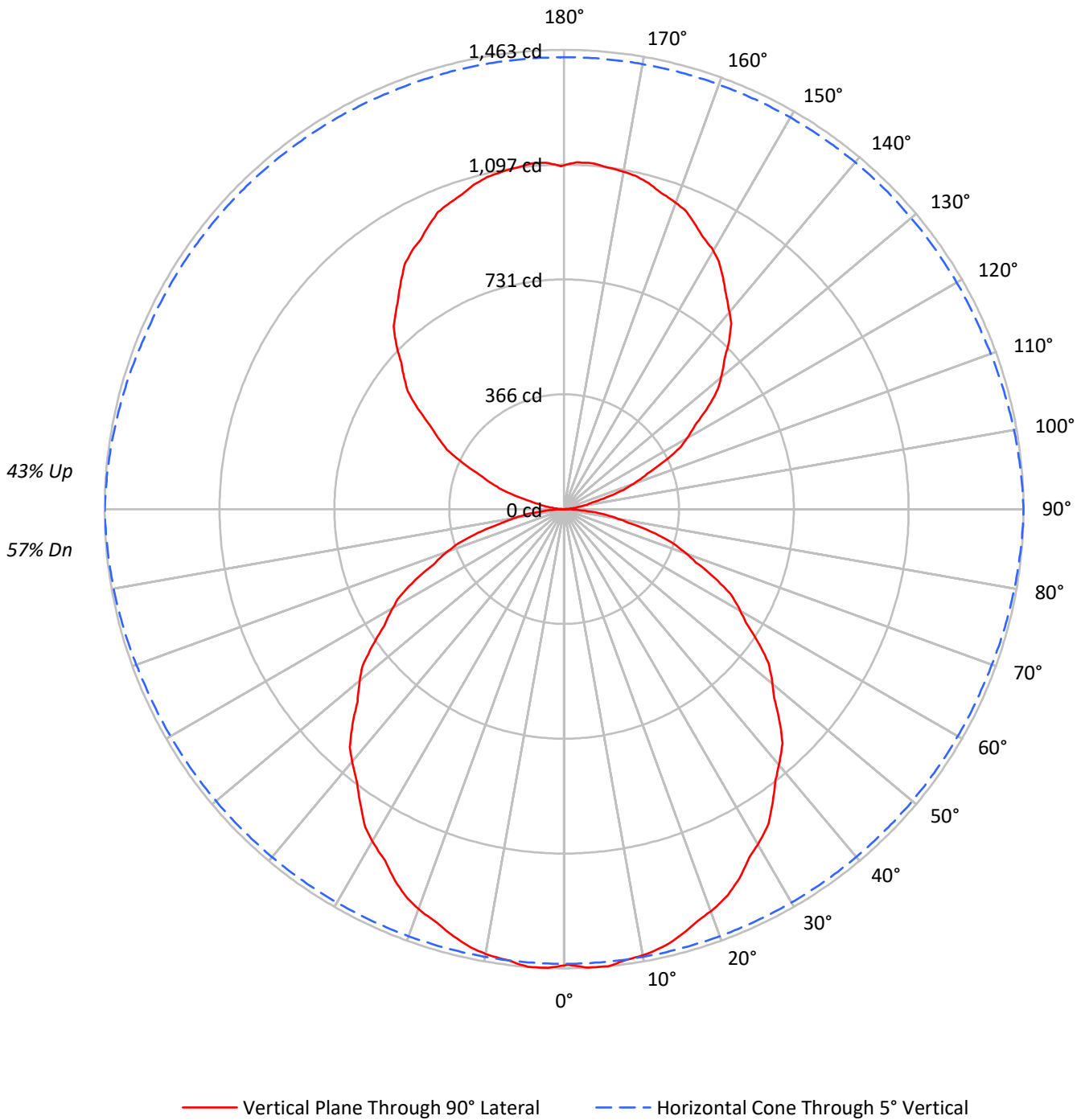
Lumens per Lamp: N/A
Luminaire Lumens: 7092.3 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 69.4
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR	0	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63	57	
	1	99	95	91	87	92	88	85	82	76	74	71	65	64	62	55	54	53	48	
	2	90	83	76	71	84	77	72	67	67	63	59	57	54	51	48	46	44	40	
	3	82	72	65	59	76	68	61	56	59	54	49	50	47	43	43	40	37	34	
	4	75	64	56	50	70	60	53	47	52	46	42	45	40	37	38	35	32	29	
	5	69	57	49	43	64	53	46	40	47	41	36	40	36	32	34	31	28	25	
	6	64	51	43	37	59	48	40	35	42	36	31	36	32	28	31	27	24	22	
	7	59	46	38	32	54	43	36	31	38	32	28	33	28	25	28	25	22	19	
	8	54	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17	
	9	51	38	31	25	47	36	29	24	32	26	22	28	23	20	24	20	17	15	
	10	47	35	28	23	44	33	26	22	29	24	20	26	21	18	22	19	16	14	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23434	23434	23434
5°	23473	23705	23324
10°	23428	23628	23145
15°	23443	23495	22967
20°	23240	23364	22629
25°	22990	23154	22265
30°	22751	22883	21860
35°	22488	22549	21484
40°	22181	22268	21043
45°	21776	21939	20543
50°	21346	21552	19967
55°	20715	21115	19310
60°	20114	20641	18535
65°	19366	20065	17616
70°	18354	19076	16287
75°	17080	17779	14410
80°	15332	15137	11920
85°	11875	12060	7540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	1.9
10°-20°	392.3	5.5
20°-30°	590.1	8.3
30°-40°	705.0	9.9
40°-50°	724.8	10.2
50°-60°	652.5	9.2
60°-70°	496.9	7.0
70°-80°	283.3	4.0
80°-90°	74.4	1.0
90°-100°	27.6	0.4
100°-110°	122.3	1.7
110°-120°	351.6	5.0
120°-130°	535.5	7.6
130°-140°	581.3	8.2
140°-150°	555.9	7.8
150°-160°	458.0	6.5
160°-170°	299.7	4.2
170°-180°	103.7	1.5
0°-30°	1119.8	15.8
0°-40°	1824.8	25.7
0°-60°	3202.2	45.2
0°-90°	4056.7	57.2
90°-120°	501.5	7.1
90°-150°	2174.2	30.7
90°-180°	3036.0	42.8
0°-180°	7092.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1451	1451	1451	1451	1451	
5°	1448	1446	1463	1442	1439	138
15°	1402	1402	1406	1385	1374	395
25°	1290	1302	1300	1272	1250	595
35°	1141	1154	1144	1116	1090	713
45°	954	961	961	924	900	735
55°	736	752	750	712	686	660
65°	507	520	525	482	461	501
75°	274	282	285	251	231	290
85°	64	69	65	54	41	75
90°	0	0	0	0	0	2
95°	4	6	19	43	42	6
105°	28	74	140	97	103	32
115°	264	693	354	166	186	364
125°	1047	912	565	280	238	919
135°	1154	1045	749	464	370	891
145°	1208	1125	894	660	564	757
155°	1220	1170	1000	828	755	565
165°	1195	1164	1073	964	917	339
175°	1125	1128	1105	1056	1031	109
180°	1092	1092	1092	1092	1092	



TEST NUMBER: P522556

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4
2.5°	1449.7	1452.9	1451.4	1449.2	1461.9	1447.6	1449.7	1447.9	1440.0
5°	1448.3	1447.3	1446.3	1447.6	1462.6	1443.6	1442.2	1439.1	1439.1
7.5°	1442.8	1441.8	1440.6	1436.4	1448.5	1429.8	1430.4	1427.2	1423.1
10°	1429.0	1432.0	1430.0	1428.2	1441.2	1419.3	1419.8	1416.6	1411.7
12.5°	1422.5	1422.3	1421.0	1415.2	1427.3	1405.4	1405.2	1401.2	1397.8
15°	1402.5	1401.5	1402.5	1392.6	1405.6	1385.7	1385.2	1377.0	1374.0
17.5°	1373.8	1375.4	1376.9	1366.7	1378.5	1354.8	1354.5	1344.9	1343.1
20°	1352.6	1352.6	1359.8	1348.8	1359.8	1336.9	1337.4	1318.0	1317.0
22.5°	1327.4	1329.0	1337.0	1326.0	1335.3	1311.6	1310.5	1294.3	1290.1
25°	1290.5	1291.5	1301.7	1288.8	1299.7	1274.8	1272.2	1250.8	1249.8
27.5°	1250.4	1250.0	1262.3	1247.2	1255.9	1233.9	1230.7	1208.1	1206.7
30°	1220.3	1218.3	1234.6	1219.5	1227.4	1204.6	1203.0	1175.5	1172.5
32.5°	1188.6	1187.4	1202.0	1189.3	1194.9	1173.6	1165.6	1142.9	1141.5
35°	1140.9	1137.0	1154.2	1141.0	1144.0	1124.1	1115.5	1092.0	1090.0
37.5°	1086.6	1084.8	1097.4	1089.1	1093.9	1073.0	1058.7	1036.3	1035.1
40°	1052.4	1047.4	1061.5	1052.5	1056.5	1035.6	1022.9	1000.4	998.4
42.5°	1010.9	1010.7	1022.5	1015.0	1019.8	998.1	982.2	960.5	957.7
45°	953.7	950.7	960.8	958.8	960.8	937.9	924.1	899.7	899.7
47.5°	890.6	888.6	902.2	896.7	899.5	879.6	861.9	840.0	836.4
50°	849.8	847.9	859.0	856.0	858.0	838.1	820.3	796.9	794.9
52.5°	807.5	805.5	817.5	813.6	814.8	797.3	778.0	756.9	753.4
55°	735.9	740.8	752.1	751.1	750.1	732.2	712.4	691.0	686.0
57.5°	674.2	676.2	684.2	685.7	682.3	670.6	646.5	625.6	620.4
60°	622.9	628.9	640.2	640.2	639.2	624.2	598.5	580.0	574.0
62.5°	575.7	582.4	592.1	594.6	593.6	575.5	553.7	536.0	528.4
65°	506.9	511.8	520.1	525.2	525.2	505.3	482.4	466.0	461.1
67.5°	435.2	441.2	448.8	454.9	452.1	433.6	413.8	399.0	390.6
70°	388.8	394.8	400.0	406.1	404.1	387.1	367.4	351.0	345.0
72.5°	341.6	348.3	352.8	358.0	355.2	338.3	321.0	306.2	298.6
75°	273.8	275.8	281.9	286.0	285.0	268.1	251.4	239.0	231.0
77.5°	207.2	208.0	213.1	214.8	210.1	199.3	185.8	176.1	168.1
80°	164.9	164.9	170.0	170.8	162.8	156.9	143.5	136.2	128.2
82.5°	121.7	122.5	129.3	129.3	122.9	116.2	106.9	98.8	94.0
85°	64.1	65.1	69.2	72.1	65.1	61.2	53.9	45.7	40.7
87.5°	17.1	17.9	23.6	26.7	20.4	20.4	13.0	8.9	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.8	0.8	1.6	2.5	4.1	15.2	17.1	15.5	14.7
95°	4.1	4.1	6.1	19.3	19.3	31.3	42.7	41.7	41.7
97.5°	9.2	10.2	14.2	58.9	44.0	42.8	61.1	67.2	67.8
100°	13.2	14.2	22.4	96.0	65.1	55.2	65.1	79.5	82.4
102.5°	18.1	19.9	35.4	151.5	92.0	66.1	76.5	86.8	89.8
105°	27.5	30.5	74.3	253.9	140.5	87.7	96.7	101.8	102.8
107.5°	41.3	52.5	203.4	357.1	199.3	116.1	121.3	124.8	126.0
110°	56.0	79.9	353.2	419.4	243.3	137.8	134.3	143.5	141.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	94.2	164.3	518.5	470.5	287.2	163.4	146.6	161.4	162.6
115°	263.6	452.7	693.1	543.3	354.2	207.9	165.9	180.3	186.3
117.5°	661.6	787.1	785.1	610.6	418.5	260.3	189.1	196.0	202.7
120°	889.5	908.5	831.5	656.1	460.0	297.8	208.6	205.7	211.7
122.5°	974.2	958.9	866.5	696.0	502.4	337.0	233.9	216.3	221.5
125°	1047.3	1017.4	911.9	753.0	564.9	394.7	279.9	239.2	238.2
127.5°	1087.8	1056.6	956.3	802.4	622.3	454.7	332.2	271.5	262.4
130°	1107.3	1078.5	987.2	832.7	660.5	495.3	370.5	299.9	286.0
132.5°	1131.0	1099.7	1009.2	863.8	697.2	533.6	408.7	334.1	317.8
135°	1154.2	1125.3	1045.3	904.3	749.1	589.9	464.1	390.4	369.5
137.5°	1174.9	1148.5	1078.2	936.2	795.9	645.2	522.7	450.9	425.4
140°	1188.8	1159.9	1092.1	960.7	824.4	680.1	561.8	490.1	470.2
142.5°	1193.7	1175.9	1106.7	981.4	856.2	713.5	600.9	526.8	508.5
145°	1208.1	1196.2	1124.7	1006.1	893.6	763.2	660.5	583.8	563.9
147.5°	1217.5	1199.6	1141.1	1032.8	930.3	807.8	714.7	641.0	622.5
150°	1218.3	1204.4	1154.2	1049.2	954.7	840.2	748.1	678.5	661.6
152.5°	1224.8	1207.7	1160.7	1063.2	972.6	867.7	781.5	716.7	698.2
155°	1220.3	1208.4	1170.5	1081.1	1000.5	903.0	828.5	771.1	755.2
157.5°	1220.3	1205.6	1171.7	1095.0	1027.4	941.8	872.4	819.5	807.5
160°	1212.2	1206.2	1172.5	1104.9	1041.2	963.6	901.8	853.6	837.6
162.5°	1208.9	1199.0	1174.1	1111.5	1053.4	981.4	927.0	881.3	869.4
165°	1194.9	1185.9	1164.3	1114.5	1072.7	1013.0	963.8	923.0	917.0
167.5°	1178.8	1171.8	1157.6	1119.4	1085.6	1036.8	995.4	962.4	954.3
170°	1167.4	1156.5	1151.1	1121.9	1092.1	1051.3	1015.7	986.0	977.1
172.5°	1147.9	1146.5	1142.2	1115.7	1097.8	1064.1	1034.5	1007.3	1001.5
175°	1124.7	1124.7	1127.7	1111.3	1105.3	1077.4	1056.5	1040.0	1031.0
177.5°	1097.8	1098.6	1105.1	1104.3	1105.1	1089.2	1083.1	1067.6	1066.0
180°	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1

(END OF REPORT)