

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: P522373

Luminaire Tested: **SQW-F-075U-025D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522373
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-025D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 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

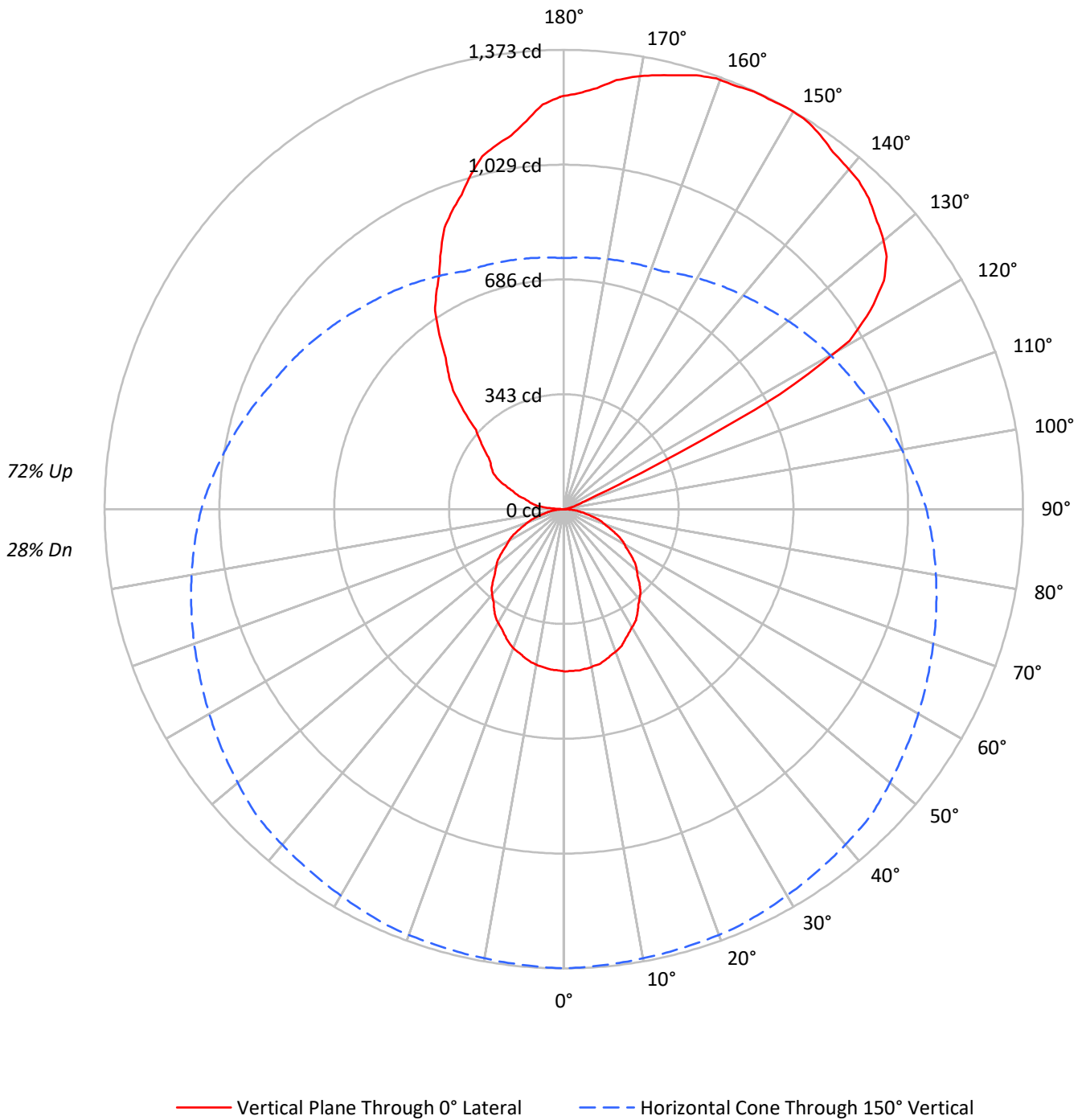
Lumens per Lamp: N/A
Luminaire Lumens: 4792.7 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 39.9
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	81	83	79	76	73	62	60	58	46	45	44	32	31	30	24
2	84	77	71	66	75	69	64	60	54	51	48	41	38	36	28	27	25	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	46	63	54	47	42	42	38	34	32	29	26	22	20	18	14
5	64	53	45	39	57	48	41	36	38	33	29	28	25	23	20	18	16	12
6	59	47	40	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11
7	55	43	35	30	49	38	32	27	31	26	22	23	20	17	16	14	12	9
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	13	11	8
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	14	11	10	8
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	13	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7837	7837	7837
5°	7851	7919	7799
10°	7838	7907	7753
15°	7816	7870	7694
20°	7765	7820	7622
25°	7641	7735	7473
30°	7567	7646	7353
35°	7486	7567	7238
40°	7364	7453	7078
45°	7238	7334	6903
50°	7096	7201	6674
55°	6863	7037	6480
60°	6655	6859	6216
65°	6315	6674	5914
70°	5976	6373	5533
75°	5546	5876	4959
80°	4965	5151	4379
85°	3687	3872	2908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	1.0
10°-20°	131.3	2.7
20°-30°	197.4	4.1
30°-40°	236.1	4.9
40°-50°	242.7	5.1
50°-60°	216.8	4.5
60°-70°	164.7	3.4
70°-80°	94.1	2.0
80°-90°	24.9	0.5
90°-100°	32.4	0.7
100°-110°	140.3	2.9
110°-120°	400.0	8.3
120°-130°	608.2	12.7
130°-140°	657.8	13.7
140°-150°	628.5	13.1
150°-160°	517.0	10.8
160°-170°	337.8	7.0
170°-180°	116.8	2.4
0°-30°	374.7	7.8
0°-40°	610.8	12.7
0°-60°	1070.2	22.3
0°-90°	1353.9	28.2
90°-120°	572.7	11.9
90°-150°	2467.2	51.5
90°-180°	3439.0	71.8
0°-180°	4792.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	485	485	485	485	485	
5°	484	484	489	483	481	46
15°	468	469	471	464	460	132
25°	429	434	434	427	420	198
35°	380	385	384	376	367	237
45°	317	321	321	312	302	244
55°	244	248	250	238	230	218
65°	165	170	175	162	155	164
75°	89	92	94	85	80	94
85°	20	23	21	19	16	24
90°	0	0	0	0	0	1
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°	485.4	485.4	485.4	485.4	485.4	485.4	485.4	485.4	485.4
2.5°	483.8	484.6	485.4	485.5	489.6	484.7	484.6	483.7	482.1
5°	484.4	484.4	484.4	483.4	488.6	482.4	483.3	481.2	481.2
7.5°	481.4	480.6	480.8	479.7	484.8	478.5	478.5	477.3	477.1
10°	478.1	478.1	479.1	477.2	482.3	475.1	476.0	473.9	472.9
12.5°	474.8	473.9	475.0	473.0	478.1	470.9	471.0	468.1	467.8
15°	467.6	467.6	468.7	466.7	470.8	464.6	464.5	461.3	460.3
17.5°	458.6	458.4	460.7	457.7	461.8	454.6	454.7	451.9	450.3
20°	451.9	450.9	454.0	451.0	455.1	447.9	448.8	443.6	443.6
22.5°	443.6	442.6	446.5	442.6	446.7	439.6	440.4	434.4	433.5
25°	428.9	430.0	434.2	431.1	434.2	427.0	426.8	420.5	419.5
27.5°	416.8	416.0	421.4	417.1	420.1	413.0	413.0	405.5	404.5
30°	405.9	405.9	412.2	407.0	410.1	402.9	403.8	395.4	394.4
32.5°	395.9	395.9	401.3	397.8	400.1	392.9	392.1	384.5	383.5
35°	379.8	379.8	385.0	381.9	383.9	376.8	375.6	367.2	367.2
37.5°	362.0	361.2	366.2	364.1	366.2	359.2	356.7	349.4	348.4
40°	349.4	349.4	353.6	351.6	353.6	347.5	344.2	336.8	335.8
42.5°	336.0	336.0	341.1	339.0	341.1	334.1	330.8	323.5	322.4
45°	317.0	317.0	321.2	320.2	321.2	315.0	311.8	303.4	302.3
47.5°	296.7	295.9	299.8	300.1	301.7	295.0	290.6	282.7	281.6
50°	282.5	282.5	285.6	286.7	286.7	281.5	277.2	266.8	265.7
52.5°	265.7	266.5	269.7	270.8	271.6	264.8	260.5	252.5	251.5
55°	243.8	242.7	247.9	249.0	250.0	243.9	237.5	231.2	230.2
57.5°	221.2	221.0	225.3	226.6	227.4	222.3	215.9	208.8	207.6
60°	206.1	205.1	210.3	212.4	212.4	207.3	200.9	194.5	192.5
62.5°	188.5	190.8	194.4	196.5	198.1	192.2	185.0	179.5	177.4
65°	165.3	166.3	170.5	172.7	174.7	168.6	162.2	156.9	154.8
67.5°	141.7	143.5	146.7	148.8	150.9	144.9	138.5	134.1	132.2
70°	126.6	127.6	130.8	132.9	135.0	129.8	123.4	118.2	117.2
72.5°	111.5	112.5	115.7	117.0	118.2	113.1	107.5	103.9	102.1
75°	88.9	89.9	92.1	93.1	94.2	89.0	84.7	81.6	79.5
77.5°	67.6	67.6	69.7	70.5	70.5	67.4	63.4	60.4	58.8
80°	53.4	53.4	55.4	55.4	55.4	52.4	49.2	47.1	47.1
82.5°	39.1	39.9	42.1	42.0	41.2	39.0	36.6	34.5	34.5
85°	19.9	20.9	23.0	23.0	20.9	20.9	18.8	17.7	15.7
87.5°	5.0	5.8	7.5	8.3	6.7	6.7	5.0	3.3	3.3
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)