

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: P522379

Luminaire Tested: **SQW-F-075U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522379
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-050D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

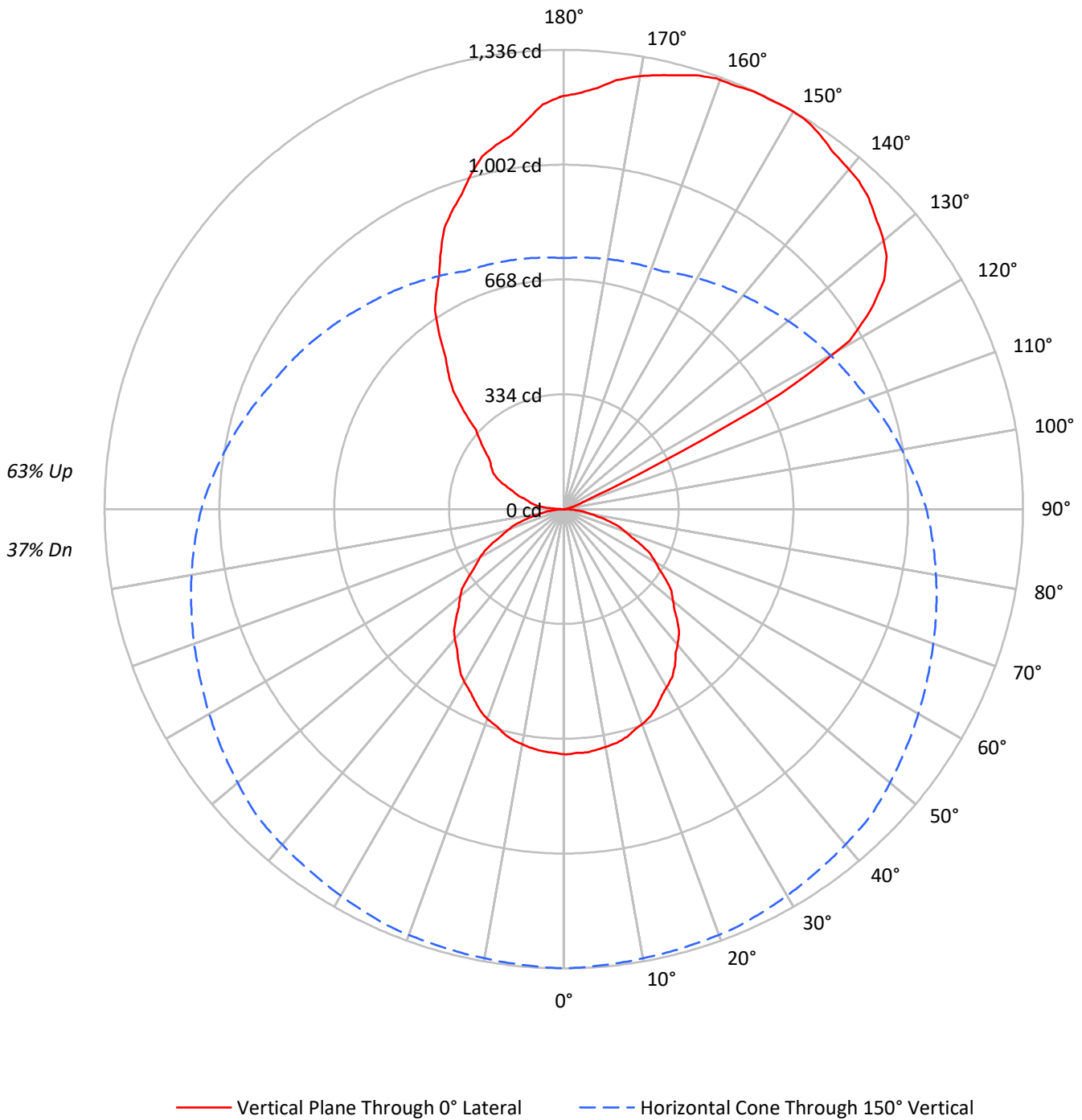
Lumens per Lamp: N/A
Luminaire Lumens: 5338.9 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 47.1
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





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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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	51	46	43	41	34	33	31	26
3	79	69	62	56	71	63	57	52	51	47	43	40	37	35	30	28	26	22
4	72	61	53	47	65	56	49	44	45	40	37	36	32	30	27	25	23	19
5	66	54	46	40	59	50	43	37	41	35	31	32	28	25	24	22	20	16
6	60	49	41	35	55	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	44	36	30	50	40	33	28	33	28	24	26	22	20	20	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11525	11525	11525
5°	11520	11635	11470
10°	11503	11619	11419
15°	11488	11557	11336
20°	11407	11495	11198
25°	11266	11375	11011
30°	11106	11257	10860
35°	10979	11119	10657
40°	10775	10966	10473
45°	10579	10812	10229
50°	10309	10615	9975
55°	10089	10376	9602
60°	9801	10162	9239
65°	9261	9727	8714
70°	8748	9276	8124
75°	8066	8515	7430
80°	7011	7476	6248
85°	5280	5854	4724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	1.3
10°-20°	193.0	3.6
20°-30°	290.3	5.4
30°-40°	346.6	6.5
40°-50°	356.5	6.7
50°-60°	320.8	6.0
60°-70°	242.6	4.5
70°-80°	138.0	2.6
80°-90°	36.5	0.7
90°-100°	31.5	0.6
100°-110°	136.5	2.6
110°-120°	389.3	7.3
120°-130°	592.0	11.1
130°-140°	640.3	12.0
140°-150°	611.8	11.5
150°-160°	503.2	9.4
160°-170°	328.8	6.2
170°-180°	113.7	2.1
0°-30°	550.8	10.3
0°-40°	897.4	16.8
0°-60°	1574.7	29.5
0°-90°	1991.7	37.3
90°-120°	557.4	10.4
90°-150°	2401.5	45.0
90°-180°	3347.0	62.7
0°-180°	5338.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	714	714	714	714	714	
5°	711	711	718	711	708	68
15°	687	688	691	683	678	194
25°	632	638	638	629	618	291
35°	557	563	564	552	541	347
45°	463	469	474	458	448	357
55°	358	366	369	354	341	320
65°	242	250	255	239	228	241
75°	129	133	136	126	119	137
85°	28	33	32	28	26	34
90°	0	0	0	0	0	1
95°	5	7	21	51	48	7
105°	32	80	158	108	116	36
115°	287	764	394	187	212	395
125°	1145	1007	630	310	266	1006
135°	1267	1147	829	514	407	976
145°	1320	1235	988	731	623	827
155°	1335	1276	1103	915	831	617
165°	1303	1275	1181	1059	1010	370
175°	1228	1231	1210	1166	1134	119
180°	1200	1200	1200	1200	1200	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	713.8	713.8	713.8	713.8	713.8	713.8	713.8	713.8	713.8
2.5°	710.6	713.0	713.0	712.3	718.7	712.3	713.8	712.1	709.8
5°	710.8	710.8	710.8	709.9	717.9	708.9	710.8	707.7	707.7
7.5°	706.5	706.7	707.5	704.9	713.6	703.7	705.5	702.2	703.0
10°	701.6	702.6	702.6	700.8	708.7	698.8	700.6	696.5	696.5
12.5°	696.7	696.9	697.7	695.1	703.0	692.3	694.1	690.0	689.2
15°	687.3	687.3	688.4	684.5	691.4	681.5	683.3	678.2	678.2
17.5°	673.7	673.5	675.9	670.8	678.0	666.8	670.4	664.1	662.3
20°	663.9	662.9	667.0	661.1	669.0	657.1	659.9	652.7	651.7
22.5°	651.7	650.7	656.4	650.4	657.6	645.7	648.4	638.9	638.7
25°	632.4	631.4	638.5	632.5	638.5	627.5	629.3	619.1	618.1
27.5°	610.4	610.4	618.7	611.7	618.5	607.6	608.3	597.9	597.9
30°	595.7	595.7	604.9	597.9	603.8	592.9	593.7	582.5	582.5
32.5°	580.2	580.2	587.8	582.4	588.4	577.4	577.4	566.2	566.2
35°	557.0	555.0	563.1	558.2	564.1	553.2	551.9	540.7	540.7
37.5°	529.1	528.1	537.0	533.5	538.3	527.5	524.6	513.9	514.8
40°	511.2	510.2	518.3	516.4	520.3	510.4	505.1	495.9	496.9
42.5°	492.4	490.7	498.8	497.6	501.6	491.7	487.2	477.2	477.4
45°	463.3	463.3	469.4	469.5	473.5	462.6	458.2	448.0	448.0
47.5°	432.4	432.6	438.9	439.2	443.0	433.4	428.7	417.7	417.5
50°	410.4	411.4	418.5	419.6	422.6	414.6	408.3	398.1	397.1
52.5°	391.6	390.2	397.3	399.2	401.4	393.4	387.2	376.9	376.0
55°	358.4	359.4	365.6	368.6	368.6	361.7	354.4	344.1	341.1
57.5°	325.4	326.8	331.8	335.7	336.6	328.9	321.4	312.1	308.1
60°	303.5	302.5	310.6	313.7	314.7	307.7	299.4	290.1	286.1
62.5°	279.8	280.4	286.1	290.8	291.8	284.1	276.6	264.9	261.7
65°	242.4	245.3	249.5	252.6	254.6	248.6	239.3	230.1	228.1
67.5°	208.1	210.1	214.2	219.0	220.2	213.4	205.1	197.1	194.9
70°	185.3	187.3	191.4	194.5	196.5	190.6	182.3	175.1	172.1
72.5°	162.5	164.5	167.8	170.9	172.9	166.9	159.5	153.1	150.9
75°	129.3	131.3	133.4	135.5	136.5	132.5	126.3	120.1	119.1
77.5°	96.5	98.5	100.8	103.4	102.4	99.7	93.7	89.6	88.4
80°	75.4	77.3	80.4	81.4	80.4	78.5	73.3	69.2	67.2
82.5°	55.8	57.8	60.9	61.1	59.3	58.9	54.6	51.3	50.1
85°	28.5	30.5	32.6	33.6	31.6	31.6	28.5	25.5	25.5
87.5°	5.7	7.3	9.8	12.2	9.8	10.6	8.1	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.6	1.6	1.6	3.3	4.9	17.6	19.6	17.1	17.1
95°	5.1	5.1	7.1	22.4	21.4	36.3	50.9	47.9	47.9
97.5°	10.4	11.4	16.3	66.2	49.9	48.5	68.8	76.6	78.0
100°	15.3	16.3	24.4	108.2	74.3	63.4	75.4	89.7	92.7
102.5°	21.0	22.8	39.1	170.2	104.5	74.4	85.9	98.7	102.4
105°	31.6	34.6	80.4	285.3	157.8	97.1	107.9	113.1	116.1
107.5°	46.8	59.0	216.7	400.9	224.0	128.2	139.7	139.0	141.5
110°	63.1	88.0	374.7	464.1	272.9	152.4	152.7	160.8	157.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	104.7	175.0	558.8	524.9	321.8	181.4	165.0	182.9	183.9
115°	287.2	493.3	763.7	610.1	394.1	232.8	187.4	204.8	211.8
117.5°	712.0	858.2	868.6	685.8	466.2	290.1	213.0	220.8	229.9
120°	965.3	995.2	917.5	732.3	514.2	331.0	234.2	231.4	241.3
122.5°	1064.7	1054.0	957.4	775.6	561.5	374.3	260.3	244.3	251.1
125°	1144.6	1116.7	1007.1	835.4	630.3	439.2	309.6	265.8	265.8
127.5°	1192.2	1159.8	1052.7	888.6	692.4	504.7	368.8	300.6	291.2
130°	1219.9	1185.1	1080.4	925.3	733.2	547.0	410.4	330.6	315.7
132.5°	1241.1	1209.4	1106.5	954.1	773.1	588.5	451.9	367.9	343.4
135°	1266.8	1239.9	1146.6	998.2	828.9	650.7	514.2	432.2	407.3
137.5°	1283.3	1262.3	1182.6	1034.4	880.6	712.4	577.2	494.8	472.3
140°	1292.2	1275.3	1200.6	1055.8	912.4	752.1	621.2	537.2	516.3
142.5°	1301.2	1287.4	1213.6	1079.6	943.3	791.8	664.3	580.3	557.8
145°	1319.7	1303.8	1235.2	1108.2	987.7	847.4	731.1	643.1	623.2
147.5°	1332.7	1313.6	1252.9	1139.0	1029.7	897.7	792.4	707.5	687.8
150°	1336.0	1316.1	1262.7	1155.5	1055.0	928.5	829.9	749.0	730.1
152.5°	1333.6	1318.4	1270.0	1169.5	1076.1	958.4	864.1	789.0	771.7
155°	1335.0	1321.0	1275.9	1188.4	1102.8	1000.3	915.4	848.9	830.9
157.5°	1328.9	1319.7	1280.0	1202.9	1127.5	1037.6	962.5	906.5	888.4
160°	1328.9	1314.9	1280.0	1211.3	1144.6	1061.9	991.8	941.6	926.6
162.5°	1319.9	1307.6	1279.2	1217.2	1160.9	1084.6	1019.5	972.6	961.7
165°	1303.4	1293.5	1274.9	1225.0	1181.2	1115.5	1059.0	1017.1	1010.1
167.5°	1290.6	1276.8	1266.8	1224.7	1195.1	1137.7	1092.4	1057.7	1053.7
170°	1275.9	1267.0	1258.6	1222.5	1201.6	1153.8	1116.1	1081.3	1077.4
172.5°	1257.2	1252.2	1248.0	1221.0	1205.7	1167.4	1136.4	1104.9	1097.7
175°	1228.1	1232.0	1231.1	1217.7	1209.7	1184.8	1165.9	1143.3	1134.4
177.5°	1210.1	1208.5	1212.6	1210.1	1209.3	1194.2	1189.0	1173.6	1178.4
180°	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6

(END OF REPORT)