

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: P522371

Luminaire Tested: **SQW-F-075U-025D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522371
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

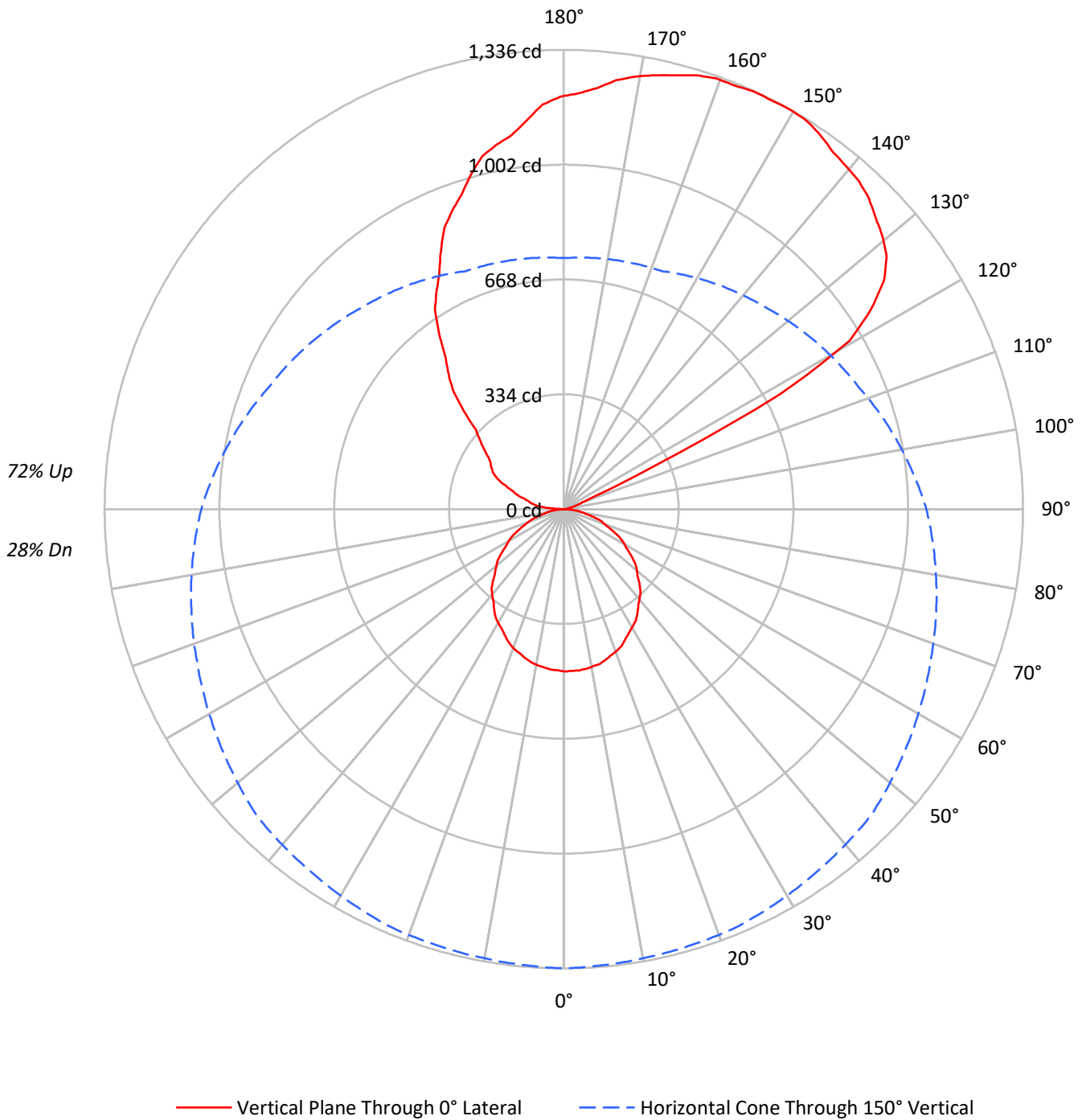
Lumens per Lamp: N/A
Luminaire Lumens: 4665.0 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 40
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°	7629	7629	7629
5°	7642	7707	7592
10°	7630	7696	7547
15°	7609	7659	7490
20°	7558	7612	7419
25°	7438	7529	7274
30°	7366	7443	7157
35°	7285	7366	7045
40°	7168	7255	6890
45°	7044	7138	6720
50°	6905	7008	6496
55°	6680	6852	6305
60°	6478	6675	6051
65°	6147	6499	5757
70°	5816	6203	5382
75°	5402	5714	4828
80°	4826	5021	4258
85°	3575	3779	2834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	1.0
10°-20°	127.8	2.7
20°-30°	192.2	4.1
30°-40°	229.8	4.9
40°-50°	236.2	5.1
50°-60°	211.0	4.5
60°-70°	160.3	3.4
70°-80°	91.6	2.0
80°-90°	24.2	0.5
90°-100°	31.5	0.7
100°-110°	136.5	2.9
110°-120°	389.3	8.3
120°-130°	592.0	12.7
130°-140°	640.3	13.7
140°-150°	611.8	13.1
150°-160°	503.2	10.8
160°-170°	328.8	7.0
170°-180°	113.7	2.4
0°-30°	364.7	7.8
0°-40°	594.5	12.7
0°-60°	1041.7	22.3
0°-90°	1317.8	28.2
90°-120°	557.4	11.9
90°-150°	2401.5	51.5
90°-180°	3347.0	71.7
0°-180°	4665.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	472	472	472	472	472	
5°	472	472	476	470	468	45
15°	455	456	458	452	448	128
25°	418	423	423	416	408	193
35°	370	375	374	366	357	231
45°	308	313	313	304	294	238
55°	237	241	243	231	224	212
65°	161	166	170	158	151	159
75°	87	90	92	82	77	92
85°	19	22	20	18	15	23
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°	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5
2.5°	470.9	471.7	472.5	472.6	476.6	471.8	471.7	470.8	469.2
5°	471.5	471.5	471.5	470.6	475.5	469.6	470.5	468.4	468.4
7.5°	468.6	467.8	468.0	466.9	471.9	465.7	465.8	464.5	464.3
10°	465.4	465.4	466.4	464.5	469.4	462.5	463.3	461.3	460.3
12.5°	462.1	461.3	462.3	460.4	465.4	458.4	458.4	455.6	455.4
15°	455.2	455.2	456.2	454.3	458.2	452.3	452.1	449.0	448.1
17.5°	446.4	446.2	448.5	445.5	449.5	442.5	442.6	439.9	438.3
20°	439.9	438.9	441.9	439.0	443.0	436.0	436.8	431.8	431.8
22.5°	431.8	430.8	434.6	430.8	434.8	427.8	428.7	422.8	422.0
25°	417.5	418.5	422.6	419.6	422.6	415.6	415.5	409.3	408.3
27.5°	405.7	404.9	410.2	406.0	408.9	402.0	402.0	394.7	393.7
30°	395.1	395.1	401.2	396.2	399.2	392.2	393.1	384.9	383.9
32.5°	385.3	385.3	390.6	387.2	389.4	382.4	381.7	374.3	373.3
35°	369.6	369.6	374.7	371.7	373.7	366.7	365.6	357.4	357.4
37.5°	352.3	351.5	356.4	354.4	356.4	349.6	347.2	340.1	339.1
40°	340.1	340.1	344.2	342.2	344.2	338.2	335.0	327.9	326.9
42.5°	327.1	327.1	332.0	330.0	332.0	325.2	322.0	314.8	313.8
45°	308.5	308.5	312.6	311.6	312.6	306.6	303.5	295.3	294.3
47.5°	288.8	288.0	291.8	292.1	293.7	287.1	282.9	275.1	274.1
50°	274.9	274.9	278.0	279.0	279.0	274.0	269.8	259.6	258.6
52.5°	258.6	259.4	262.5	263.6	264.4	257.8	253.6	245.8	244.8
55°	237.3	236.3	241.3	242.4	243.4	237.4	231.2	225.0	224.0
57.5°	215.3	215.1	219.3	220.6	221.4	216.4	210.2	203.2	202.0
60°	200.6	199.6	204.7	206.7	206.7	201.7	195.5	189.4	187.4
62.5°	183.5	185.7	189.2	191.3	192.9	187.1	180.0	174.7	172.7
65°	160.9	161.9	166.0	168.1	170.1	164.1	157.8	152.7	150.7
67.5°	137.9	139.7	142.8	144.8	146.8	141.1	134.8	130.5	128.7
70°	123.2	124.2	127.3	129.4	131.4	126.4	120.2	115.0	114.0
72.5°	108.6	109.5	112.6	113.9	115.1	110.1	104.7	101.2	99.4
75°	86.6	87.6	89.6	90.7	91.6	86.7	82.5	79.4	77.4
77.5°	65.8	65.8	67.8	68.6	68.6	65.6	61.7	58.8	57.2
80°	51.9	51.9	54.0	54.0	54.0	51.0	47.9	45.8	45.8
82.5°	38.1	38.9	40.9	40.9	40.1	37.9	35.6	33.6	33.6
85°	19.3	20.3	22.4	22.4	20.4	20.4	18.3	17.3	15.3
87.5°	4.9	5.7	7.3	8.1	6.5	6.5	4.9	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°	1.6	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)