

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: P522368

Luminaire Tested: **SQW-F-075U-025D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522368
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 (2700K)
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

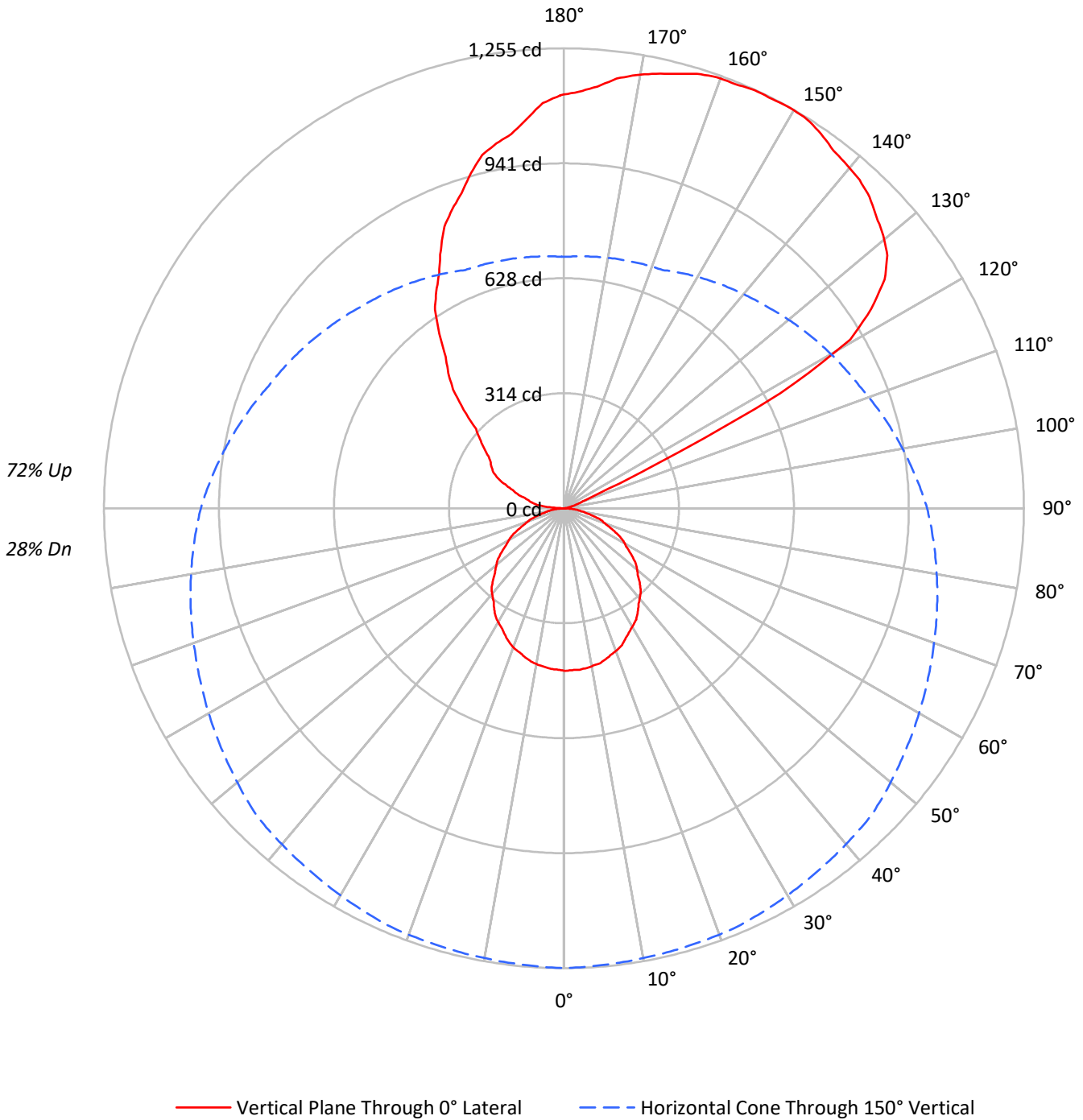
Lumens per Lamp: N/A
Luminaire Lumens: 4383.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

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	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°	7167	7167	7167
5°	7180	7242	7133
10°	7168	7232	7089
15°	7149	7196	7037
20°	7101	7151	6971
25°	6989	7073	6836
30°	6921	6991	6725
35°	6845	6920	6619
40°	6736	6816	6473
45°	6619	6706	6314
50°	6488	6584	6104
55°	6275	6438	5925
60°	6087	6271	5683
65°	5776	6105	5410
70°	5467	5825	5061
75°	5072	5371	4535
80°	4537	4714	4007
85°	3372	3538	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	1.0
10°-20°	120.1	2.7
20°-30°	180.5	4.1
30°-40°	215.9	4.9
40°-50°	221.9	5.1
50°-60°	198.3	4.5
60°-70°	150.6	3.4
70°-80°	86.1	2.0
80°-90°	22.8	0.5
90°-100°	29.6	0.7
100°-110°	128.3	2.9
110°-120°	365.8	8.3
120°-130°	556.2	12.7
130°-140°	601.6	13.7
140°-150°	574.8	13.1
150°-160°	472.8	10.8
160°-170°	308.9	7.0
170°-180°	106.8	2.4
0°-30°	342.6	7.8
0°-40°	558.5	12.7
0°-60°	978.7	22.3
0°-90°	1238.2	28.2
90°-120°	523.7	11.9
90°-150°	2256.3	51.5
90°-180°	3145.0	71.8
0°-180°	4383.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	444	444	444	444	444	
5°	443	443	447	442	440	42
15°	428	429	430	425	421	121
25°	392	397	397	390	384	181
35°	347	352	351	344	336	217
45°	290	294	294	285	276	223
55°	223	227	229	217	210	199
65°	151	156	160	148	142	150
75°	81	84	86	78	73	86
85°	18	21	19	17	14	22
90°	0	0	0	0	0	1
95°	5	7	20	48	45	6
105°	30	76	148	101	109	34
115°	270	718	370	176	199	371
125°	1075	946	592	291	250	945
135°	1190	1077	779	483	383	917
145°	1240	1160	928	687	586	777
155°	1254	1199	1036	860	781	580
165°	1225	1198	1110	995	949	348
175°	1154	1157	1137	1096	1066	112
180°	1127	1127	1127	1127	1127	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	443.9	443.9	443.9	443.9	443.9	443.9	443.9	443.9	443.9
2.5°	442.4	443.1	443.9	444.0	447.8	443.3	443.2	442.4	440.9
5°	443.0	443.0	443.0	442.1	446.8	441.2	442.0	440.1	440.1
7.5°	440.3	439.5	439.7	438.7	443.4	437.6	437.6	436.5	436.3
10°	437.2	437.2	438.2	436.4	441.1	434.5	435.3	433.4	432.4
12.5°	434.2	433.4	434.4	432.6	437.2	430.7	430.7	428.0	427.9
15°	427.7	427.7	428.6	426.8	430.5	424.9	424.8	421.9	421.0
17.5°	419.4	419.2	421.3	418.6	422.3	415.8	415.8	413.3	411.8
20°	413.3	412.4	415.2	412.4	416.2	409.6	410.4	405.7	405.7
22.5°	405.7	404.7	408.3	404.8	408.5	402.0	402.8	397.2	396.5
25°	392.3	393.2	397.0	394.2	397.0	390.5	390.4	384.6	383.7
27.5°	381.2	380.4	385.4	381.4	384.2	377.7	377.7	370.8	369.9
30°	371.2	371.2	377.0	372.2	375.0	368.5	369.3	361.6	360.7
32.5°	362.0	362.0	367.0	363.8	365.9	359.3	358.6	351.7	350.7
35°	347.3	347.3	352.1	349.3	351.1	344.6	343.5	335.8	335.8
37.5°	331.0	330.3	334.9	333.0	334.9	328.5	326.2	319.5	318.6
40°	319.6	319.6	323.4	321.5	323.4	317.8	314.8	308.0	307.1
42.5°	307.3	307.3	311.9	310.0	311.9	305.5	302.5	295.8	294.9
45°	289.9	289.9	293.7	292.8	293.7	288.1	285.1	277.4	276.5
47.5°	271.3	270.6	274.2	274.4	275.9	269.7	265.8	258.5	257.6
50°	258.3	258.3	261.2	262.1	262.1	257.5	253.5	243.9	243.0
52.5°	243.0	243.8	246.6	247.6	248.4	242.2	238.2	230.9	230.0
55°	222.9	222.0	226.7	227.7	228.7	223.0	217.2	211.4	210.5
57.5°	202.3	202.1	206.1	207.2	208.0	203.3	197.5	190.9	189.8
60°	188.5	187.5	192.3	194.2	194.2	189.5	183.7	177.9	176.0
62.5°	172.4	174.5	177.8	179.7	181.2	175.8	169.2	164.1	162.3
65°	151.2	152.1	155.9	157.9	159.8	154.2	148.3	143.5	141.6
67.5°	129.5	131.2	134.1	136.1	138.0	132.5	126.7	122.6	120.9
70°	115.8	116.7	119.6	121.5	123.4	118.7	112.9	108.1	107.2
72.5°	102.0	102.9	105.8	107.0	108.1	103.4	98.4	95.1	93.4
75°	81.3	82.3	84.2	85.2	86.1	81.4	77.5	74.6	72.7
77.5°	61.8	61.8	63.7	64.5	64.5	61.7	58.0	55.3	53.8
80°	48.8	48.8	50.7	50.7	50.7	47.9	45.0	43.1	43.1
82.5°	35.8	36.5	38.5	38.4	37.7	35.6	33.5	31.6	31.6
85°	18.2	19.1	21.0	21.0	19.1	19.1	17.2	16.2	14.4
87.5°	4.6	5.3	6.9	7.6	6.1	6.1	4.6	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.5	1.5	1.5	3.1	4.6	16.6	18.4	16.1	16.1
95°	4.8	4.8	6.7	21.0	20.1	34.1	47.8	45.0	45.0
97.5°	9.8	10.7	15.3	62.2	46.9	45.6	64.7	72.0	73.3
100°	14.4	15.3	23.0	101.6	69.8	59.6	70.8	84.3	87.1
102.5°	19.7	21.4	36.7	159.9	98.2	69.9	80.7	92.7	96.2
105°	29.7	32.5	75.6	268.0	148.3	91.2	101.4	106.3	109.1
107.5°	44.0	55.4	203.6	376.6	210.5	120.5	131.3	130.6	133.0
110°	59.3	82.7	352.1	436.0	256.4	143.2	143.5	151.1	148.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	98.4	164.4	525.1	493.2	302.3	170.4	155.0	171.9	172.8
115°	269.8	463.4	717.6	573.3	370.3	218.7	176.0	192.5	199.0
117.5°	669.0	806.3	816.1	644.4	438.0	272.6	200.1	207.4	216.0
120°	907.0	935.1	862.0	688.0	483.2	311.0	220.0	217.4	226.7
122.5°	1000.4	990.3	899.5	728.7	527.5	351.7	244.5	229.6	235.9
125°	1075.4	1049.2	946.2	784.9	592.2	412.6	290.8	249.7	249.7
127.5°	1120.1	1089.7	989.1	834.9	650.6	474.2	346.5	282.4	273.6
130°	1146.2	1113.4	1015.1	869.4	688.9	513.9	385.6	310.6	296.6
132.5°	1166.1	1136.3	1039.6	896.4	726.4	552.9	424.6	345.6	322.6
135°	1190.2	1164.9	1077.3	937.8	778.8	611.3	483.2	406.1	382.7
137.5°	1205.7	1186.0	1111.2	971.8	827.4	669.3	542.3	464.9	443.7
140°	1214.1	1198.2	1128.0	991.9	857.2	706.6	583.6	504.7	485.1
142.5°	1222.5	1209.6	1140.2	1014.3	886.3	743.9	624.2	545.2	524.1
145°	1239.9	1225.0	1160.5	1041.2	928.0	796.1	686.9	604.2	585.5
147.5°	1252.2	1234.2	1177.2	1070.2	967.5	843.4	744.5	664.7	646.2
150°	1255.2	1236.5	1186.4	1085.7	991.2	872.4	779.7	703.8	686.0
152.5°	1252.9	1238.7	1193.2	1098.8	1011.1	900.5	811.9	741.3	725.0
155°	1254.3	1241.2	1198.8	1116.6	1036.1	939.8	860.1	797.5	780.7
157.5°	1248.5	1239.9	1202.6	1130.2	1059.3	974.9	904.3	851.7	834.7
160°	1248.5	1235.4	1202.6	1138.0	1075.4	997.7	931.9	884.7	870.6
162.5°	1240.1	1228.5	1201.9	1143.6	1090.7	1019.0	957.9	913.8	903.5
165°	1224.6	1215.3	1197.8	1151.0	1109.8	1048.1	995.0	955.6	949.1
167.5°	1212.6	1199.7	1190.2	1150.7	1122.8	1068.9	1026.4	993.8	990.0
170°	1198.8	1190.4	1182.5	1148.6	1128.9	1084.0	1048.6	1016.0	1012.2
172.5°	1181.2	1176.5	1172.6	1147.2	1132.8	1096.9	1067.7	1038.1	1031.4
175°	1153.8	1157.6	1156.7	1144.1	1136.6	1113.2	1095.5	1074.2	1065.8
177.5°	1137.0	1135.5	1139.3	1137.0	1136.2	1122.0	1117.1	1102.6	1107.1
180°	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0

(END OF REPORT)