

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: P511781

Luminaire Tested: **SQW-F-075U-025D-840-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511781
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-17,
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-075U-025D-840-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

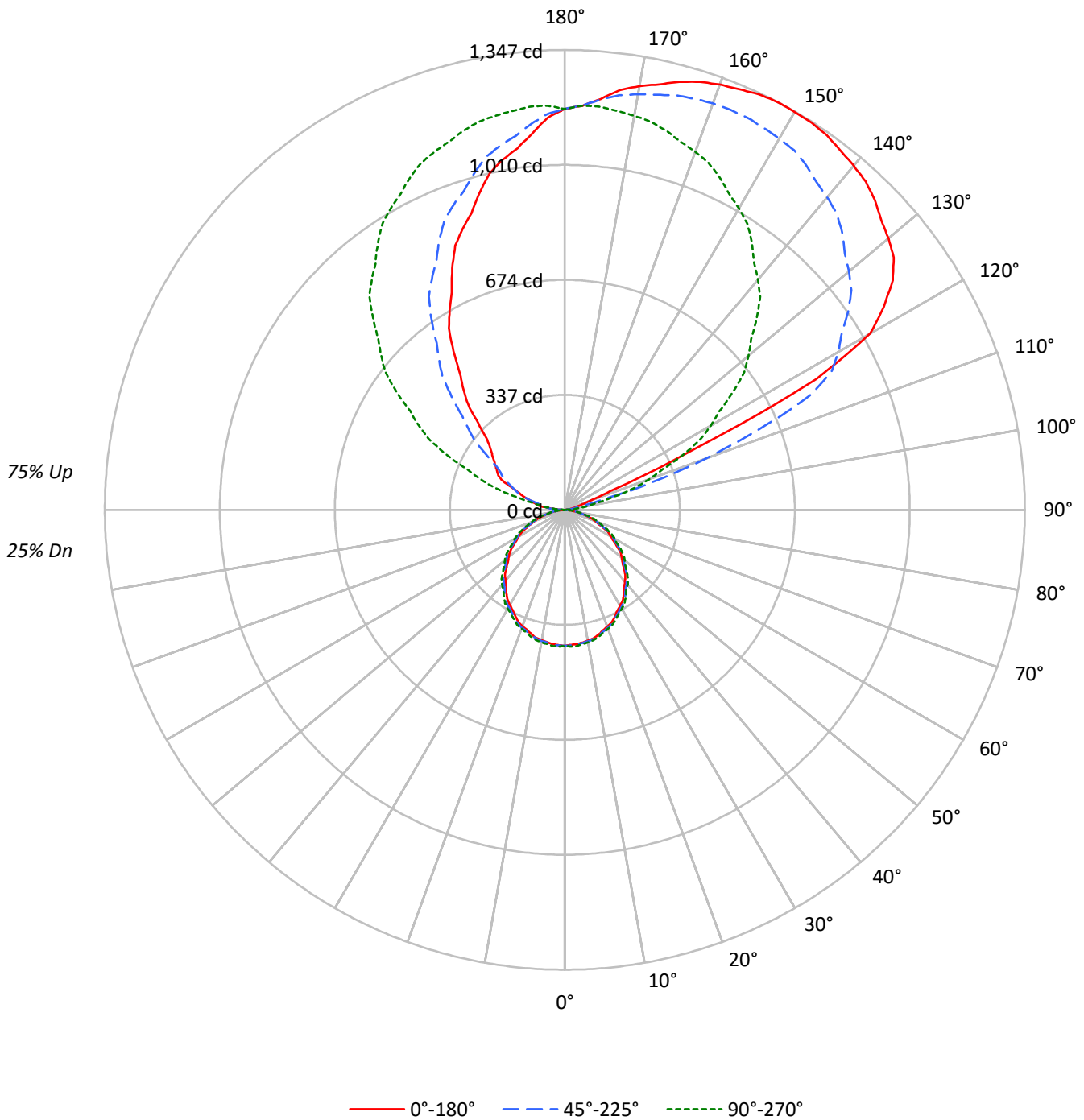
Lumens per Lamp: N/A
Luminaire Lumens: 4368.4 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 29.5
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25
1	92	88	84	81	82	78	75	72	61	58	57	44	43	42	29	28	28	21
2	84	77	71	66	74	68	64	59	53	50	47	39	37	35	25	24	23	17
3	76	67	60	55	68	60	54	49	47	43	39	34	31	29	23	21	20	15
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13
5	64	53	45	39	57	47	41	36	37	32	28	27	24	21	18	16	15	11
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10
7	54	42	35	29	48	38	31	27	30	25	22	22	19	16	15	13	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	15	14	12	10	8
9	46	35	28	23	41	31	25	21	25	20	17	18	15	13	12	11	9	7
10	43	32	25	20	39	29	23	18	23	18	15	17	14	12	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	12859	12859	12859
5°	12804	12976	12804
10°	12742	12919	12709
15°	12670	12851	12600
20°	12512	12732	12478
25°	12328	12595	12214
30°	12070	12465	11992
35°	11878	12256	11751
40°	11533	12073	11398
45°	11234	11718	11088
50°	10912	11499	10751
55°	10489	11209	10489
60°	10043	10863	10043
65°	9521	10415	9521
70°	8847	9847	8743
75°	7711	8896	7835
80°	6341	7327	6527
85°	3557	5113	4335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.6	0.9
10°-20°	107.1	2.5
20°-30°	160.5	3.7
30°-40°	190.5	4.4
40°-50°	193.5	4.4
50°-60°	172.5	3.9
60°-70°	128.7	2.9
70°-80°	70.8	1.6
80°-90°	17.4	0.4
90°-100°	29.6	0.7
100°-110°	137.3	3.1
110°-120°	400.2	9.2
120°-130°	581.6	13.3
130°-140°	622.3	14.2
140°-150°	595.4	13.6
150°-160°	490.9	11.2
160°-170°	321.1	7.4
170°-180°	111.3	2.5
0°-30°	305.2	7.0
0°-40°	495.7	11.3
0°-60°	861.7	19.7
0°-90°	1078.6	24.7
90°-120°	567.1	13.0
90°-150°	2366.4	54.2
90°-180°	3290.0	75.3
0°-180°	4368.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	398	398	398	398	398	
5°	395	396	400	396	395	37
15°	379	381	384	379	377	107
25°	346	350	354	349	343	159
35°	301	308	311	306	298	188
45°	246	253	257	251	243	190
55°	186	195	199	193	186	167
65°	125	130	136	130	125	123
75°	62	66	71	66	63	66
85°	10	13	14	14	12	14
90°	2	2	1	4	9	1
95°	9	11	22	36	33	10
105°	36	106	152	97	105	44
115°	403	792	381	182	201	473
125°	1172	1013	600	278	254	1036
135°	1283	1149	794	468	359	990
145°	1339	1233	954	681	568	838
155°	1343	1267	1074	870	780	620
165°	1298	1257	1149	1022	962	368
175°	1208	1206	1185	1134	1106	117
180°	1174	1174	1174	1174	1174	



TEST NUMBER: P511781

CATALOG NUMBER: SQW-F-075U-025D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	398.2	398.2	398.2	398.2	398.2	398.2	398.2	398.2	398.2
2.5°	395.7	397.3	397.4	397.4	400.8	397.4	397.4	397.3	396.5
5°	395.0	395.0	396.1	396.2	400.3	396.2	396.1	395.0	395.0
7.5°	392.0	392.2	393.3	393.2	396.5	392.1	392.2	392.0	391.8
10°	388.6	389.7	390.8	389.8	394.0	388.7	389.7	388.6	387.6
12.5°	385.2	386.3	387.4	386.4	390.5	386.2	386.3	385.2	385.0
15°	379.0	380.1	381.2	380.2	384.4	379.2	379.0	378.0	376.9
17.5°	370.1	372.0	373.5	372.5	376.5	371.5	372.4	369.9	368.2
20°	364.1	365.2	368.4	367.4	370.5	366.4	367.3	363.1	363.1
22.5°	357.3	358.4	361.6	360.6	364.6	359.6	360.5	356.2	355.4
25°	346.0	347.1	350.3	349.3	353.5	348.3	349.2	343.9	342.8
27.5°	333.1	334.3	339.4	338.5	342.8	336.6	337.5	332.2	330.9
30°	323.7	325.8	330.1	329.1	334.3	328.1	329.0	323.6	321.6
32.5°	315.2	317.2	320.7	321.4	325.0	319.5	319.6	314.3	312.2
35°	301.3	303.4	307.7	307.8	310.9	305.7	305.6	300.2	298.1
37.5°	285.6	287.4	292.2	293.5	295.8	291.0	289.8	284.5	282.4
40°	273.6	274.7	281.1	283.3	286.4	279.1	277.9	272.5	270.4
42.5°	262.6	264.4	270.0	271.3	273.6	268.8	266.8	261.5	259.4
45°	246.0	248.0	253.4	255.6	256.6	252.4	251.3	245.9	242.8
47.5°	229.1	231.2	236.6	239.0	240.0	236.9	233.6	229.1	225.9
50°	217.2	219.3	224.7	227.9	228.9	225.8	222.5	217.1	214.0
52.5°	206.1	207.4	212.7	216.8	217.0	214.7	210.6	205.2	202.9
55°	186.3	189.5	194.8	199.1	199.1	197.0	192.7	187.4	186.3
57.5°	169.1	170.3	175.7	179.9	180.2	178.9	174.6	169.3	168.2
60°	155.5	157.5	162.9	167.2	168.2	166.1	161.8	156.5	155.5
62.5°	144.4	144.8	150.1	154.4	155.5	153.4	149.1	144.5	142.7
65°	124.6	125.6	129.9	135.2	136.3	134.2	129.9	125.6	124.6
67.5°	105.6	106.7	110.7	115.9	117.1	115.0	109.7	106.5	105.4
70°	93.7	94.7	98.0	102.3	104.3	102.3	96.9	93.7	92.6
72.5°	80.9	82.0	85.2	89.5	90.7	88.6	84.1	81.7	80.7
75°	61.8	63.8	66.0	70.3	71.3	70.3	66.0	63.9	62.8
77.5°	45.1	46.2	48.3	51.3	52.2	51.3	49.4	46.2	46.2
80°	34.1	35.1	37.3	39.4	39.4	39.4	38.3	35.1	35.1
82.5°	23.9	24.9	26.2	29.2	28.3	29.2	28.1	25.7	24.9
85°	9.6	10.6	12.8	14.9	13.8	14.9	13.8	11.7	11.7
87.5°	1.3	2.1	2.1	4.5	4.5	5.5	4.3	4.1	4.3
90°	2.2	2.2	2.2	1.1	1.1	2.2	4.4	7.7	8.8
92.5°	4.0	4.8	4.9	5.5	6.4	12.7	8.8	10.4	10.6
95°	8.8	8.8	11.0	26.4	22.1	32.9	36.4	34.2	33.1
97.5°	14.6	15.6	21.4	69.3	49.7	44.0	60.0	64.1	60.3
100°	19.9	20.9	32.0	109.5	71.7	56.6	66.2	78.4	80.6
102.5°	26.0	28.0	49.7	168.8	100.9	71.9	75.9	87.2	90.3
105°	36.4	41.8	105.9	279.6	152.3	95.1	97.1	100.5	104.8
107.5°	56.5	75.9	269.0	396.9	215.6	124.8	129.1	126.0	126.2
110°	79.5	120.5	440.3	464.4	261.5	148.2	146.8	144.5	141.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	143.9	252.2	613.3	524.2	310.1	173.5	160.9	170.9	164.2
115°	402.8	611.0	792.3	606.2	380.7	216.7	182.1	196.5	200.8
117.5°	830.7	925.0	881.5	679.1	448.2	267.2	202.4	212.7	219.8
120°	1032.9	1029.6	924.7	724.2	493.3	304.4	217.4	224.1	229.5
122.5°	1107.0	1076.2	960.9	764.8	536.5	344.3	237.7	233.9	240.1
125°	1171.9	1129.8	1013.0	820.4	600.3	405.0	278.1	249.5	253.8
127.5°	1214.1	1167.9	1057.6	871.4	662.1	469.4	331.5	274.2	269.0
130°	1237.0	1191.7	1085.9	902.5	701.8	510.9	368.6	298.8	285.8
132.5°	1256.5	1213.7	1112.3	932.7	740.7	553.1	408.3	329.5	310.5
135°	1283.4	1242.4	1148.8	976.9	794.5	614.3	467.9	385.6	358.6
137.5°	1303.9	1266.6	1177.4	1016.4	846.8	674.6	530.3	447.6	420.0
140°	1315.4	1279.8	1195.1	1041.3	879.5	713.3	572.7	488.3	462.4
142.5°	1326.0	1291.2	1210.1	1063.6	910.4	750.3	616.0	529.8	503.9
145°	1338.6	1305.1	1232.6	1095.9	954.5	805.6	680.9	593.1	568.3
147.5°	1344.5	1313.7	1248.7	1124.6	994.0	856.8	741.1	656.9	631.9
150°	1346.3	1317.1	1255.8	1141.6	1019.6	890.2	779.1	700.1	674.2
152.5°	1347.2	1317.2	1261.1	1155.9	1042.6	920.0	816.2	741.7	717.5
155°	1343.0	1316.0	1266.8	1173.0	1073.7	962.6	869.6	801.8	780.2
157.5°	1333.3	1313.4	1267.7	1187.4	1099.8	1002.4	920.3	858.3	838.0
160°	1325.3	1308.0	1266.8	1195.5	1115.6	1026.1	951.2	894.5	875.1
162.5°	1314.7	1297.5	1262.4	1199.3	1129.8	1048.0	980.4	926.4	910.4
165°	1297.7	1281.5	1256.9	1204.9	1148.8	1080.8	1021.8	975.2	962.3
167.5°	1276.1	1266.0	1244.8	1207.1	1164.0	1109.0	1059.8	1021.8	1010.8
170°	1260.2	1252.7	1235.9	1206.5	1171.9	1125.5	1083.6	1049.3	1041.7
172.5°	1239.9	1235.8	1224.5	1203.1	1178.1	1140.3	1104.8	1074.9	1067.3
175°	1208.3	1210.5	1206.1	1198.1	1185.2	1159.3	1134.4	1113.3	1105.7
177.5°	1184.7	1184.7	1185.6	1186.5	1184.7	1173.5	1160.9	1148.6	1149.4
180°	1174.1	1174.1	1174.1	1174.1	1174.1	1174.1	1174.1	1174.1	1174.1

(END OF REPORT)