

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: P511780

Luminaire Tested: **SQW-F-075U-025D-835-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511780
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-835-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

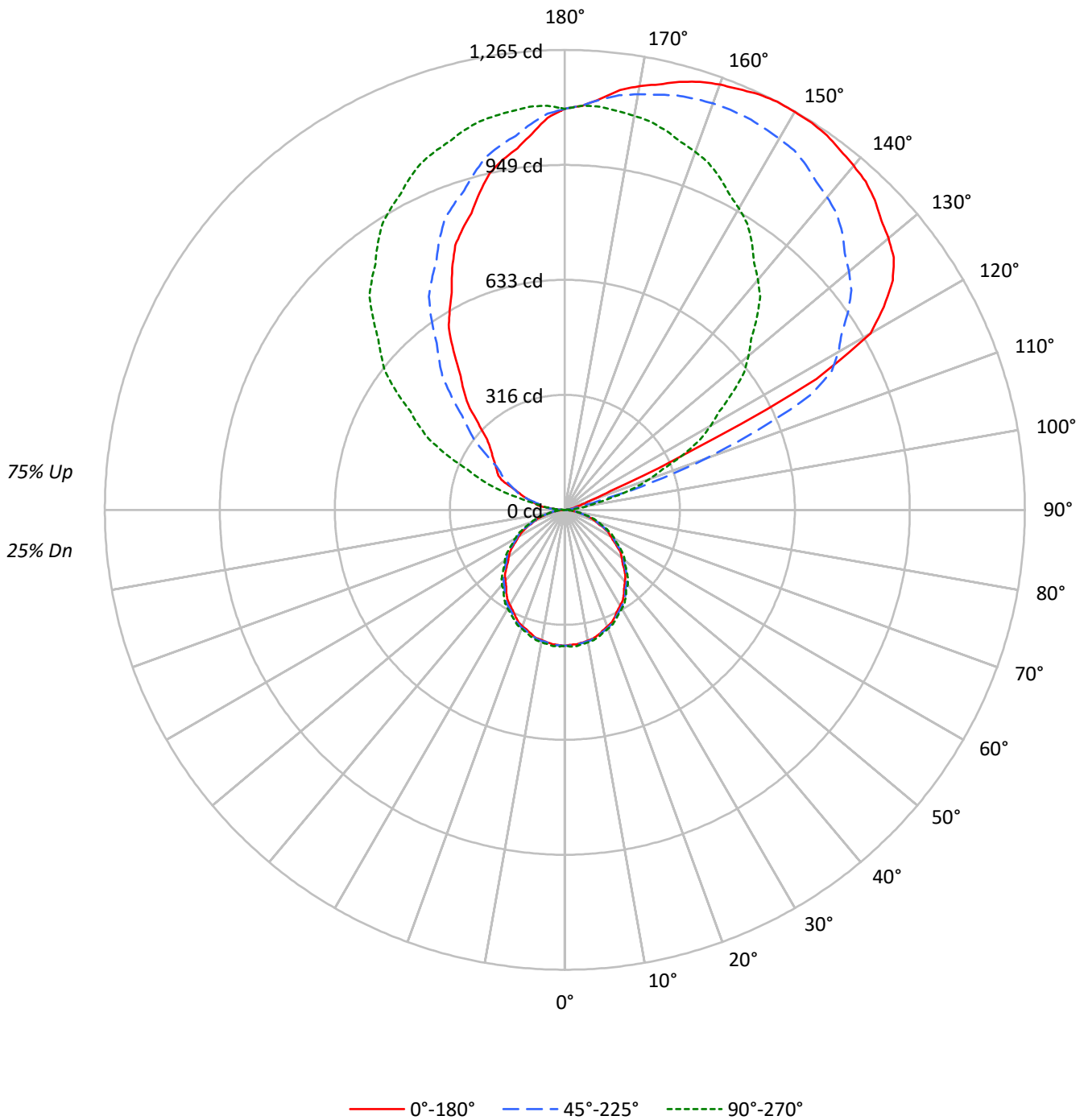
Lumens per Lamp: N/A
Luminaire Lumens: 4102.8 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Indirect

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°	12077	12077	12077
5°	12026	12188	12026
10°	11968	12132	11936
15°	11901	12069	11835
20°	11753	11959	11718
25°	11580	11829	11473
30°	11335	11708	11261
35°	11156	11511	11038
40°	10834	11339	10707
45°	10549	11006	10412
50°	10248	10801	10098
55°	9852	10528	9852
60°	9429	10204	9429
65°	8940	9780	8940
70°	8309	9253	8214
75°	7236	8359	7361
80°	5951	6881	6137
85°	3335	4817	4076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	0.9
10°-20°	100.6	2.5
20°-30°	150.7	3.7
30°-40°	178.9	4.4
40°-50°	181.8	4.4
50°-60°	162.0	3.9
60°-70°	120.9	2.9
70°-80°	66.5	1.6
80°-90°	16.3	0.4
90°-100°	27.8	0.7
100°-110°	128.9	3.1
110°-120°	375.9	9.2
120°-130°	546.3	13.3
130°-140°	584.5	14.2
140°-150°	559.2	13.6
150°-160°	461.1	11.2
160°-170°	301.6	7.3
170°-180°	104.6	2.5
0°-30°	286.7	7.0
0°-40°	465.6	11.3
0°-60°	809.3	19.7
0°-90°	1013.1	24.7
90°-120°	532.6	13.0
90°-150°	2222.6	54.2
90°-180°	3090.0	75.3
0°-180°	4102.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	374	374	374	374	374	
5°	371	372	376	372	371	35
15°	356	358	361	356	354	100
25°	325	329	332	328	322	149
35°	283	289	292	287	280	176
45°	231	238	241	236	228	178
55°	175	183	187	181	175	157
65°	117	122	128	122	117	116
75°	58	62	67	62	59	62
85°	9	12	13	13	11	13
90°	2	2	1	4	8	1
95°	8	10	21	34	31	9
105°	34	100	143	91	98	42
115°	378	744	358	171	189	444
125°	1101	951	564	261	238	973
135°	1205	1079	746	439	337	930
145°	1257	1158	896	640	534	787
155°	1261	1190	1008	817	733	583
165°	1219	1180	1079	960	904	346
175°	1135	1133	1113	1065	1038	110
180°	1103	1103	1103	1103	1103	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0
2.5°	371.6	373.2	373.2	373.3	376.4	373.3	373.2	373.2	372.4
5°	371.0	371.0	372.0	372.1	376.0	372.1	372.0	371.0	371.0
7.5°	368.2	368.4	369.4	369.3	372.4	368.3	368.4	368.2	368.0
10°	365.0	366.0	367.0	366.1	370.0	365.1	366.0	365.0	364.0
12.5°	361.8	362.8	363.8	362.9	366.8	362.7	362.8	361.8	361.6
15°	356.0	357.0	358.0	357.1	361.0	356.1	356.0	355.0	354.0
17.5°	347.6	349.4	350.8	349.9	353.6	348.9	349.8	347.4	345.8
20°	342.0	343.0	346.0	345.1	348.0	344.1	345.0	341.0	341.0
22.5°	335.6	336.6	339.6	338.7	342.4	337.7	338.6	334.6	333.8
25°	325.0	326.0	329.0	328.1	332.0	327.1	328.0	323.0	322.0
27.5°	312.8	314.0	318.8	317.9	322.0	316.1	317.0	312.0	310.8
30°	304.0	306.0	310.0	309.1	314.0	308.1	309.0	304.0	302.0
32.5°	296.0	298.0	301.2	301.9	305.2	300.1	300.2	295.2	293.2
35°	283.0	285.0	289.0	289.1	292.0	287.1	287.0	282.0	280.0
37.5°	268.2	270.0	274.4	275.6	277.8	273.3	272.2	267.2	265.2
40°	257.0	258.0	264.0	266.1	269.0	262.2	261.0	256.0	254.0
42.5°	246.6	248.4	253.6	254.8	257.0	252.5	250.6	245.6	243.6
45°	231.0	233.0	238.0	240.0	241.0	237.1	236.0	230.9	228.0
47.5°	215.2	217.2	222.2	224.4	225.4	222.5	219.4	215.1	212.2
50°	204.0	206.0	211.0	214.0	215.0	212.1	209.0	203.9	201.0
52.5°	193.6	194.8	199.8	203.6	203.8	201.6	197.8	192.8	190.6
55°	175.0	177.9	183.0	187.0	187.0	185.0	181.0	176.0	175.0
57.5°	158.8	160.0	165.0	169.0	169.2	168.0	164.0	159.0	158.0
60°	146.0	148.0	153.0	157.0	158.0	156.0	152.0	147.0	146.0
62.5°	135.6	136.0	141.0	145.0	146.0	144.0	140.0	135.8	134.0
65°	117.0	118.0	122.0	127.0	128.0	126.0	122.0	118.0	117.0
67.5°	99.2	100.2	104.0	108.8	110.0	108.0	103.0	100.0	99.0
70°	88.0	89.0	92.0	96.0	98.0	96.0	91.0	88.0	87.0
72.5°	76.0	77.0	80.0	84.0	85.2	83.2	79.0	76.8	75.8
75°	58.0	60.0	62.0	66.0	67.0	66.0	62.0	60.0	59.0
77.5°	42.4	43.4	45.4	48.2	49.0	48.2	46.4	43.4	43.4
80°	32.0	33.0	35.0	37.0	37.0	37.0	36.0	33.0	33.0
82.5°	22.4	23.4	24.6	27.4	26.6	27.4	26.4	24.2	23.4
85°	9.0	10.0	12.0	14.0	13.0	14.0	13.0	11.0	11.0
87.5°	1.2	2.0	2.0	4.2	4.2	5.2	4.0	3.9	4.1
90°	2.1	2.1	2.1	1.0	1.0	2.0	4.1	7.3	8.3
92.5°	3.7	4.5	4.6	5.2	6.0	11.9	8.3	9.7	9.9
95°	8.3	8.3	10.4	24.8	20.7	30.9	34.2	32.1	31.1
97.5°	13.7	14.7	20.1	65.1	46.6	41.4	56.4	60.2	56.6
100°	18.7	19.7	30.1	102.8	67.4	53.2	62.2	73.6	75.7
102.5°	24.5	26.3	46.6	158.6	94.7	67.6	71.3	81.9	84.8
105°	34.2	39.3	99.5	262.6	143.0	89.3	91.2	94.4	98.5
107.5°	53.1	71.3	252.7	372.8	202.5	117.2	121.3	118.4	118.6
110°	74.6	113.1	413.5	436.1	245.6	139.2	137.8	135.7	132.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	135.1	236.9	576.0	492.3	291.2	162.9	151.1	160.5	154.2
115°	378.3	573.9	744.1	569.4	357.6	203.5	171.0	184.6	188.6
117.5°	780.2	868.8	827.9	637.9	421.0	250.9	190.1	199.8	206.5
120°	970.1	967.0	868.5	680.1	463.3	285.9	204.2	210.5	215.6
122.5°	1039.7	1010.7	902.5	718.3	503.9	323.3	223.2	219.6	225.5
125°	1100.7	1061.1	951.4	770.5	563.8	380.4	261.2	234.3	238.4
127.5°	1140.3	1096.9	993.3	818.4	621.8	440.9	311.3	257.5	252.7
130°	1161.8	1119.3	1019.8	847.6	659.2	479.8	346.2	280.6	268.4
132.5°	1180.1	1139.9	1044.7	876.0	695.6	519.5	383.5	309.5	291.6
135°	1205.3	1166.8	1078.9	917.5	746.2	577.0	439.4	362.2	336.8
137.5°	1224.6	1189.6	1105.9	954.6	795.3	633.6	498.1	420.4	394.5
140°	1235.4	1202.0	1122.4	978.0	826.0	670.0	537.9	458.6	434.3
142.5°	1245.4	1212.7	1136.5	998.9	855.0	704.7	578.5	497.5	473.2
145°	1257.2	1225.8	1157.7	1029.3	896.5	756.7	639.5	557.1	533.8
147.5°	1262.8	1233.8	1172.8	1056.2	933.6	804.7	696.1	617.0	593.5
150°	1264.4	1237.1	1179.4	1072.2	957.6	836.0	731.7	657.6	633.2
152.5°	1265.3	1237.1	1184.4	1085.6	979.2	864.1	766.5	696.6	673.9
155°	1261.3	1236.0	1189.8	1101.7	1008.4	904.1	816.7	753.0	732.7
157.5°	1252.2	1233.5	1190.6	1115.2	1032.9	941.5	864.4	806.1	787.1
160°	1244.7	1228.5	1189.8	1122.8	1047.8	963.7	893.4	840.1	821.9
162.5°	1234.8	1218.6	1185.7	1126.3	1061.1	984.3	920.7	870.0	855.0
165°	1218.8	1203.6	1180.5	1131.6	1078.9	1015.1	959.7	915.9	903.8
167.5°	1198.5	1189.0	1169.1	1133.7	1093.2	1041.5	995.4	959.7	949.4
170°	1183.6	1176.5	1160.8	1133.1	1100.7	1057.1	1017.8	985.5	978.4
172.5°	1164.5	1160.7	1150.0	1130.0	1106.5	1071.0	1037.7	1009.5	1002.4
175°	1134.9	1136.9	1132.8	1125.3	1113.1	1088.8	1065.4	1045.6	1038.5
177.5°	1112.7	1112.7	1113.5	1114.3	1112.7	1102.2	1090.3	1078.7	1079.5
180°	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7

(END OF REPORT)