

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: P511787

Luminaire Tested: **SQW-F-075U-050D-840-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511787
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-050D-840-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

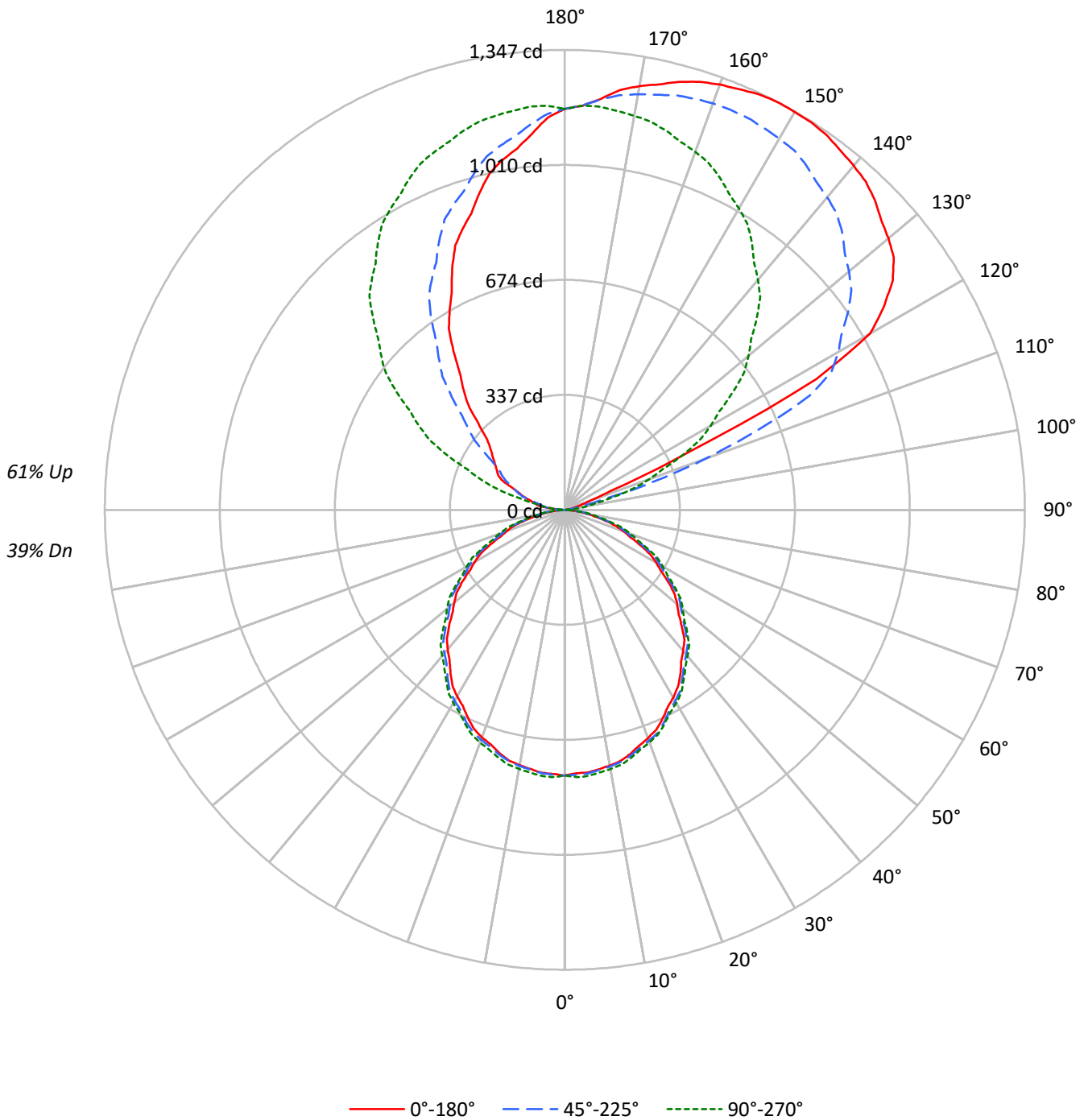
Lumens per Lamp: N/A
Luminaire Lumens: 5405.7 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 37.8
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33
2	87	79	73	68	79	72	67	63	59	56	52	47	45	42	36	34	33	28
3	79	70	63	57	72	64	57	52	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	34	29	34	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	23	19	16	18	15	13	11
10	45	33	26	21	41	31	24	20	26	21	17	21	17	14	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	25133	25133	25133
5°	25021	25368	25057
10°	24927	25278	24894
15°	24739	25130	24669
20°	24440	24918	24368
25°	24090	24620	23940
30°	23663	24338	23502
35°	23255	23925	23002
40°	22713	23564	22485
45°	22126	23144	21879
50°	21557	22627	21235
55°	20859	22058	20560
60°	19943	21384	19666
65°	18629	20340	18384
70°	17193	19204	16985
75°	15147	17405	15009
80°	12273	14654	12478
85°	7114	9856	8299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	1.4
10°-20°	209.4	3.9
20°-30°	313.8	5.8
30°-40°	372.9	6.9
40°-50°	381.7	7.1
50°-60°	340.4	6.3
60°-70°	252.5	4.7
70°-80°	138.3	2.6
80°-90°	33.4	0.6
90°-100°	29.6	0.5
100°-110°	137.3	2.5
110°-120°	400.2	7.4
120°-130°	581.6	10.8
130°-140°	622.3	11.5
140°-150°	595.4	11.0
150°-160°	490.9	9.1
160°-170°	321.1	5.9
170°-180°	111.3	2.1
0°-30°	596.7	11.0
0°-40°	969.7	17.9
0°-60°	1691.7	31.3
0°-90°	2115.9	39.1
90°-120°	567.1	10.5
90°-150°	2366.4	43.8
90°-180°	3290.0	60.9
0°-180°	5405.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	778	778	778	778	778	
5°	772	775	783	774	773	73
15°	740	745	752	742	738	209
25°	676	687	691	685	672	311
35°	590	600	607	598	584	368
45°	484	499	507	495	479	374
55°	370	383	392	382	365	330
65°	244	256	266	254	241	242
75°	121	130	140	130	120	129
85°	19	26	27	28	22	27
90°	2	2	1	4	9	2
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	778.3	778.3	778.3	778.3	778.3	778.3	778.3	778.3	778.3
2.5°	772.4	775.7	776.6	775.9	783.4	776.8	776.6	775.7	774.1
5°	771.9	773.0	775.1	773.2	782.6	773.2	774.1	772.0	773.0
7.5°	766.2	767.2	768.5	767.4	776.0	767.4	768.1	766.0	766.0
10°	760.2	761.3	763.4	761.5	770.9	761.5	761.3	759.2	759.2
12.5°	753.4	754.5	756.6	754.7	764.1	754.7	754.5	751.5	752.3
15°	740.0	743.1	745.3	742.3	751.7	742.3	742.1	739.9	737.9
17.5°	724.0	727.1	730.8	727.6	736.2	726.6	727.6	722.9	721.0
20°	711.2	714.4	719.8	715.7	725.1	714.7	716.6	710.2	709.1
22.5°	697.6	699.9	707.8	703.8	712.3	702.7	703.8	695.7	694.6
25°	676.1	678.2	686.8	683.7	691.0	681.6	684.6	672.9	671.9
27.5°	651.6	654.7	662.5	660.5	668.9	658.5	661.4	649.2	647.4
30°	634.6	637.7	646.3	644.4	652.7	642.3	645.2	631.4	630.3
32.5°	615.8	620.6	628.4	628.1	634.8	625.2	626.5	613.5	611.6
35°	589.9	593.0	600.5	600.7	606.9	598.6	598.4	585.6	583.5
37.5°	560.1	564.2	572.2	573.4	579.4	570.3	568.8	557.2	553.9
40°	538.8	542.9	552.6	553.8	559.0	550.7	548.3	537.6	533.4
42.5°	518.3	522.5	532.2	533.3	538.5	531.0	527.0	517.1	511.3
45°	484.5	489.7	499.4	502.7	506.8	499.5	495.1	483.3	479.1
47.5°	452.1	456.3	466.1	471.5	473.4	468.4	462.7	450.1	445.7
50°	429.1	433.3	444.0	449.3	450.4	446.2	439.7	427.9	422.7
52.5°	405.2	409.4	421.0	426.3	427.4	423.2	416.7	404.9	399.7
55°	370.5	374.7	383.3	391.8	391.8	389.7	382.2	369.4	365.2
57.5°	333.5	337.4	348.2	355.6	355.8	352.9	345.2	333.4	329.2
60°	308.8	311.9	322.6	330.1	331.1	329.1	320.5	308.7	304.5
62.5°	281.5	285.5	296.2	304.6	306.4	303.5	294.1	283.1	277.3
65°	243.8	245.9	255.5	264.1	266.2	263.1	254.5	243.8	240.6
67.5°	206.8	208.0	217.2	225.8	228.1	224.7	216.1	208.8	203.8
70°	182.1	184.2	191.7	200.2	203.4	199.2	190.6	184.1	179.9
72.5°	157.4	159.5	167.0	174.7	177.8	174.5	166.7	160.3	156.1
75°	121.4	122.4	129.9	137.4	139.5	136.4	129.9	124.5	120.3
77.5°	87.3	88.3	96.3	100.8	102.6	100.8	95.6	90.4	87.5
80°	66.0	67.1	72.4	77.7	78.8	77.7	73.5	69.2	67.1
82.5°	45.6	46.6	52.8	56.4	56.6	57.3	53.9	50.4	47.5
85°	19.2	20.2	25.6	28.7	26.6	29.7	27.7	24.4	22.4
87.5°	3.0	3.0	5.6	7.9	7.9	8.9	7.7	7.5	6.0
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)