

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: P522376

Luminaire Tested: **SQW-F-075U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522376
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-050D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 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: 5016.1 lumens
Efficiency: N/A
Efficacy: 107.0 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

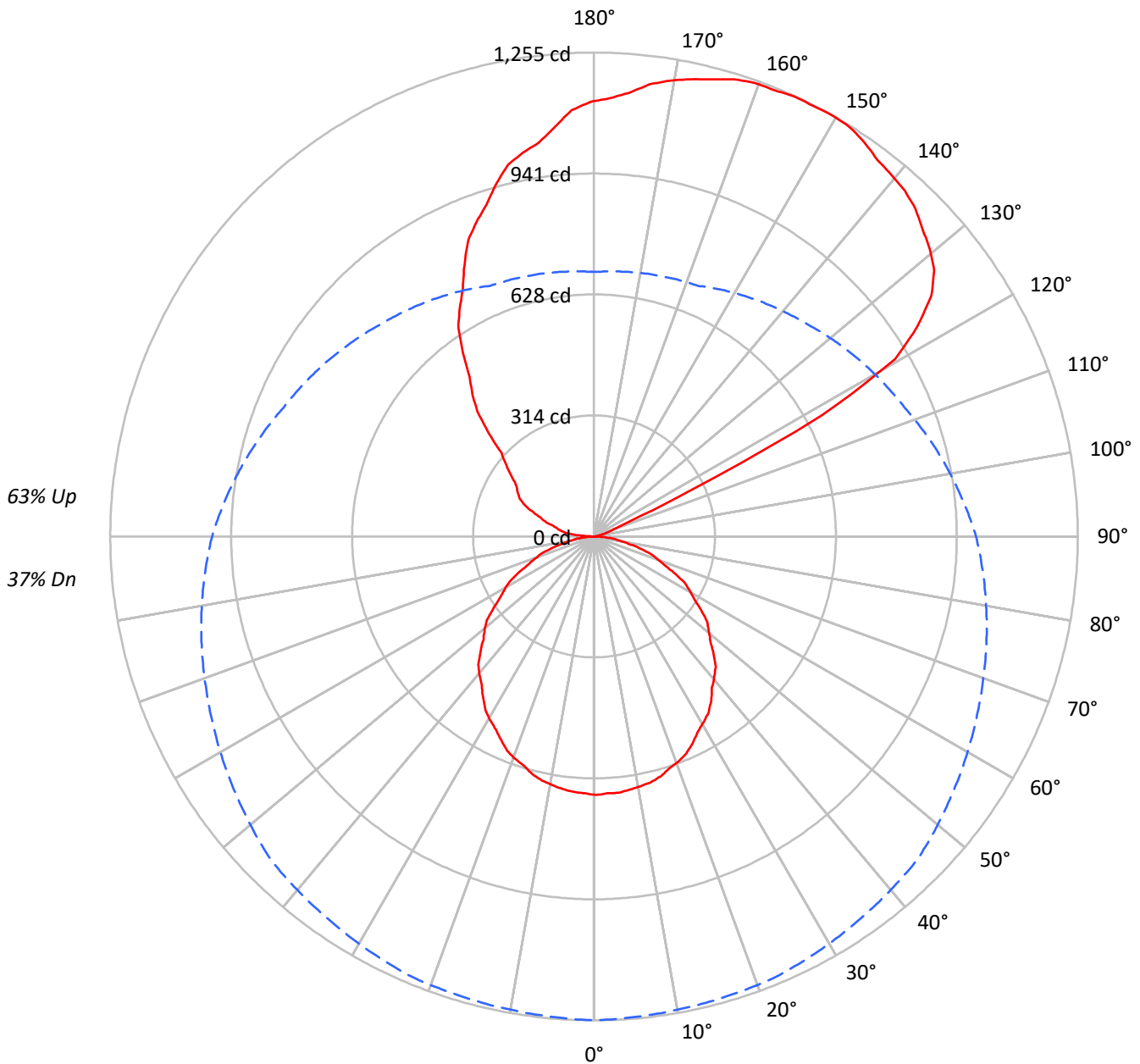
Input Watts (W): 46.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



— Vertical Plane Through 0° Lateral - - - Horizontal Cone Through 150° Vertical



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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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	51	46	43	41	34	33	31	26
3	79	69	62	56	71	63	57	52	51	47	43	40	37	35	30	28	26	22
4	72	61	53	47	65	56	49	44	45	40	37	36	32	30	27	25	23	19
5	66	54	46	40	59	50	43	37	41	35	31	32	28	25	24	22	20	16
6	60	49	41	35	55	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	44	36	30	50	40	33	28	33	28	24	26	22	20	20	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10829	10829	10829
5°	10823	10932	10776
10°	10808	10917	10729
15°	10795	10858	10651
20°	10718	10801	10521
25°	10584	10687	10345
30°	10435	10577	10204
35°	10314	10447	10013
40°	10123	10304	9841
45°	9939	10159	9613
50°	9686	9972	9372
55°	9481	9748	9022
60°	9206	9545	8680
65°	8699	9138	8187
70°	8219	8719	7633
75°	7580	7997	6981
80°	6583	7029	5867
85°	4965	5502	4428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	1.3
10°-20°	181.3	3.6
20°-30°	272.8	5.4
30°-40°	325.7	6.5
40°-50°	335.0	6.7
50°-60°	301.4	6.0
60°-70°	227.9	4.5
70°-80°	129.6	2.6
80°-90°	34.3	0.7
90°-100°	29.6	0.6
100°-110°	128.3	2.6
110°-120°	365.8	7.3
120°-130°	556.2	11.1
130°-140°	601.6	12.0
140°-150°	574.8	11.5
150°-160°	472.8	9.4
160°-170°	308.9	6.2
170°-180°	106.8	2.1
0°-30°	517.5	10.3
0°-40°	843.2	16.8
0°-60°	1479.5	29.5
0°-90°	1871.3	37.3
90°-120°	523.7	10.4
90°-150°	2256.3	45.0
90°-180°	3145.0	62.7
0°-180°	5016.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	671	671	671	671	671	
5°	668	668	674	668	665	63
15°	646	647	650	642	637	182
25°	594	600	600	591	581	273
35°	523	529	530	519	508	326
45°	435	441	445	430	421	335
55°	337	344	346	333	320	301
65°	228	234	239	225	214	226
75°	122	125	128	119	112	128
85°	27	31	30	27	24	32
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°	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7
2.5°	667.6	669.9	669.9	669.3	675.3	669.3	670.7	669.1	666.8
5°	667.8	667.8	667.8	667.0	674.5	666.1	667.8	664.9	664.9
7.5°	663.8	664.0	664.7	662.2	670.5	661.1	662.8	659.8	660.5
10°	659.2	660.1	660.1	658.4	665.9	656.5	658.2	654.4	654.4
12.5°	654.6	654.8	655.6	653.0	660.5	650.4	652.1	648.3	647.5
15°	645.8	645.8	646.8	643.1	649.6	640.3	642.0	637.2	637.2
17.5°	633.0	632.8	635.1	630.3	637.0	626.5	629.9	623.9	622.3
20°	623.8	622.9	626.7	621.1	628.6	617.4	620.0	613.2	612.3
22.5°	612.3	611.4	616.7	611.1	617.9	606.6	609.3	600.3	600.1
25°	594.1	593.2	599.9	594.3	599.9	589.6	591.3	581.7	580.7
27.5°	573.5	573.5	581.3	574.8	581.1	570.8	571.6	561.8	561.8
30°	559.7	559.7	568.3	561.7	567.3	557.1	557.8	547.3	547.3
32.5°	545.1	545.1	552.2	547.2	552.8	542.5	542.5	531.9	531.9
35°	523.3	521.5	529.1	524.4	530.0	519.7	518.6	508.0	508.0
37.5°	497.1	496.2	504.6	501.2	505.7	495.6	492.9	482.8	483.7
40°	480.3	479.3	487.0	485.2	488.9	479.5	474.5	466.0	466.9
42.5°	462.7	461.0	468.6	467.5	471.3	461.9	457.7	448.3	448.5
45°	435.3	435.3	441.1	441.1	444.9	434.6	430.5	421.0	421.0
47.5°	406.2	406.4	412.4	412.6	416.2	407.2	402.8	392.4	392.3
50°	385.6	386.5	393.2	394.2	397.0	389.6	383.7	374.1	373.1
52.5°	368.0	366.7	373.3	375.1	377.1	369.7	363.8	354.2	353.2
55°	336.8	337.7	343.5	346.3	346.3	339.8	332.9	323.3	320.5
57.5°	305.8	307.1	311.7	315.4	316.3	309.0	301.9	293.3	289.5
60°	285.1	284.2	291.8	294.7	295.6	289.1	281.3	272.6	268.8
62.5°	262.9	263.5	268.8	273.3	274.2	266.9	259.8	248.9	245.9
65°	227.7	230.5	234.4	237.3	239.2	233.6	224.8	216.2	214.3
67.5°	195.6	197.4	201.3	205.7	206.8	200.5	192.7	185.2	183.1
70°	174.1	176.0	179.9	182.8	184.7	179.0	171.3	164.5	161.7
72.5°	152.7	154.6	157.7	160.6	162.5	156.8	149.8	143.8	141.8
75°	121.5	123.4	125.3	127.3	128.2	124.5	118.6	112.9	111.9
77.5°	90.7	92.6	94.7	97.2	96.2	93.6	88.0	84.2	83.0
80°	70.8	72.7	75.6	76.5	75.6	73.7	68.9	65.0	63.1
82.5°	52.4	54.3	57.2	57.4	55.7	55.3	51.3	48.2	47.1
85°	26.8	28.7	30.6	31.5	29.7	29.7	26.8	23.9	23.9
87.5°	5.4	6.9	9.2	11.4	9.2	9.9	7.7	5.4	5.4
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)