

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: P522540

Luminaire Tested: **SQW-F-075U-025D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522540
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-075U-025D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

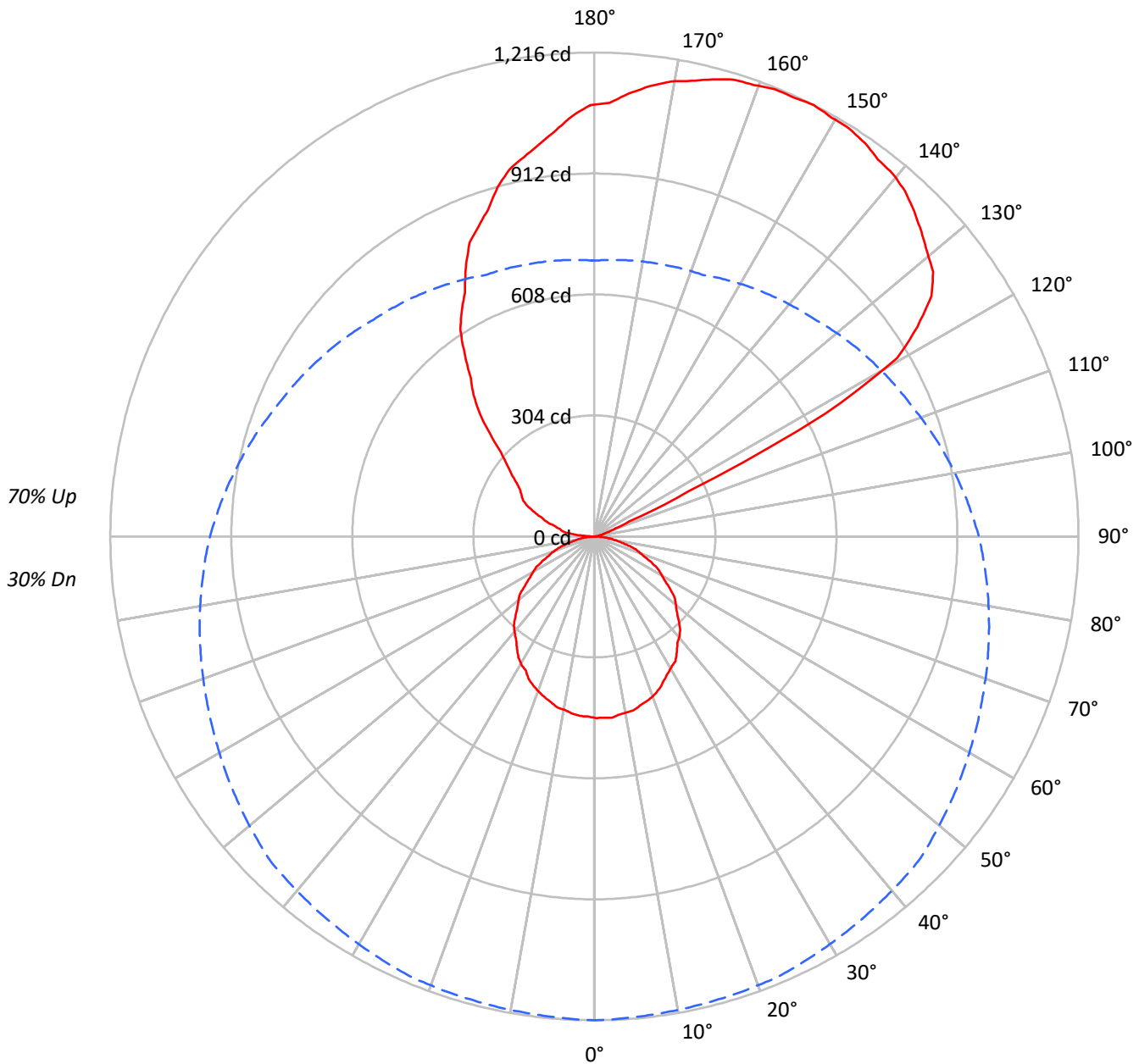
Lumens per Lamp: N/A
Luminaire Lumens: 4284.5 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 39.7
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



TEST NUMBER: P522540
CATALOG NUMBER: SQW-F-075U-025D-93050-1D-UNV-STD-W-4 (4000K)

Luminous Intensity Polar Plot



— Vertical Plane Through 0° Lateral - - - Horizontal Cone Through 152.5° Vertical



TEST NUMBER: P522540

CATALOG NUMBER: SQW-F-075U-025D-93050-1D-UNV-STD-W-4 (4000K)

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	92	92	92	92	72	72	72	54	54	54	37	37	37	30				
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	33	32	31	25				
2	85	78	72	67	76	70	65	60	55	52	49	41	39	37	29	28	26	21				
3	77	68	61	55	69	61	55	50	48	44	41	37	34	31	25	24	22	17				
4	70	60	52	47	63	54	48	42	43	38	34	32	29	27	23	21	19	15				
5	65	53	45	40	58	48	41	36	38	33	30	29	26	23	20	18	17	13				
6	59	48	40	34	53	43	36	31	34	29	26	26	23	20	18	16	15	11				
7	55	43	35	30	49	39	32	27	31	26	22	24	20	18	17	15	13	10				
8	51	39	31	26	45	35	29	24	28	23	20	22	18	16	15	13	11	9				
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10	8				
10	44	32	25	21	39	29	23	19	24	19	16	18	15	12	13	11	9	7				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7375	7375	7375
5°	7420	7452	7339
10°	7373	7389	7258
15°	7331	7383	7213
20°	7328	7345	7137
25°	7183	7274	7058
30°	7103	7180	6915
35°	7033	7072	6753
40°	6945	6945	6624
45°	6738	6878	6462
50°	6651	6777	6295
55°	6457	6629	6032
60°	6232	6429	5809
65°	6025	6216	5521
70°	5679	5962	5202
75°	5234	5421	4666
80°	4603	4788	3942
85°	3372	3742	2612



TEST NUMBER: P522540

CATALOG NUMBER: SQW-F-075U-025D-93050-1D-UNV-STD-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.0
10°-20°	123.4	2.9
20°-30°	185.4	4.3
30°-40°	221.3	5.2
40°-50°	227.3	5.3
50°-60°	203.9	4.8
60°-70°	154.4	3.6
70°-80°	88.2	2.1
80°-90°	23.1	0.5
90°-100°	27.4	0.6
100°-110°	121.5	2.8
110°-120°	349.1	8.1
120°-130°	531.8	12.4
130°-140°	577.2	13.5
140°-150°	552.0	12.9
150°-160°	454.7	10.6
160°-170°	297.6	6.9
170°-180°	103.0	2.4
0°-30°	352.0	8.2
0°-40°	573.2	13.4
0°-60°	1004.5	23.4
0°-90°	1270.2	29.6
90°-120°	498.0	11.6
90°-150°	2158.9	50.4
90°-180°	3014.0	70.3
0°-180°	4284.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	457	457	457	457	457	
5°	458	456	460	453	453	43
15°	439	442	442	438	432	124
25°	403	407	408	403	396	186
35°	357	359	359	351	343	223
45°	295	301	301	290	283	229
55°	229	234	236	223	214	205
65°	158	161	163	152	144	155
75°	84	87	87	80	75	89
85°	18	21	20	17	14	22
90°	0	0	0	0	0	1
95°	4	6	19	42	41	5
105°	27	74	140	96	102	32
115°	262	688	352	165	185	362
125°	1040	906	561	278	236	913
135°	1146	1038	744	461	367	885
145°	1200	1117	887	656	560	752
155°	1212	1162	994	823	750	561
165°	1186	1156	1065	957	911	337
175°	1117	1120	1098	1049	1024	108
180°	1084	1084	1084	1084	1084	



TEST NUMBER: P522540

CATALOG NUMBER: SQW-F-075U-025D-93050-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	456.8	456.8	456.8	456.8	456.8	456.8	456.8	456.8	456.8
2.5°	456.0	456.8	458.4	456.1	459.2	456.1	456.8	455.1	452.8
5°	457.8	455.8	455.8	455.9	459.8	454.9	452.8	451.8	452.8
7.5°	452.2	452.6	452.4	452.1	456.4	448.7	451.8	448.7	449.1
10°	449.7	447.8	450.7	448.8	450.7	447.8	447.7	444.6	442.7
12.5°	447.3	446.1	447.5	444.0	449.9	442.2	441.2	440.6	441.0
15°	438.6	441.6	441.7	438.7	441.7	434.7	437.6	433.5	431.5
17.5°	433.8	430.8	432.2	429.8	433.2	427.4	427.1	422.9	423.5
20°	426.5	423.5	426.5	422.6	427.5	418.6	421.4	416.4	415.4
22.5°	416.8	416.2	420.0	416.8	417.8	412.9	412.5	406.7	405.7
25°	403.2	404.2	407.3	402.4	408.3	400.4	403.2	394.2	396.2
27.5°	391.5	391.7	395.2	392.8	393.9	387.8	388.1	380.4	379.0
30°	381.0	382.0	387.1	383.1	385.1	378.1	380.0	369.9	370.9
32.5°	373.7	371.6	375.8	371.8	375.4	368.4	368.7	361.0	359.6
35°	356.8	356.8	358.8	358.8	358.8	351.9	350.7	343.6	342.6
37.5°	339.2	338.4	345.2	340.0	342.4	336.7	334.5	327.6	326.4
40°	329.5	325.5	331.5	329.5	329.5	324.5	322.4	316.3	314.3
42.5°	315.7	314.9	319.4	318.2	320.6	312.5	310.3	303.4	302.2
45°	295.1	296.1	301.2	299.2	301.2	296.2	290.1	285.0	283.0
47.5°	277.7	276.1	281.0	280.8	282.8	275.3	272.5	264.8	264.4
50°	264.8	264.8	268.8	267.9	269.8	263.9	258.7	252.6	250.6
52.5°	251.9	250.3	255.1	254.9	255.3	250.1	245.0	239.7	238.5
55°	229.4	230.4	234.5	234.5	235.5	230.5	223.4	217.2	214.3
57.5°	208.4	207.8	211.6	212.8	212.8	207.9	201.5	196.4	195.3
60°	193.0	194.0	197.1	199.1	199.1	194.2	187.0	181.9	179.9
62.5°	178.5	178.7	182.5	183.8	185.4	179.6	173.2	168.1	166.1
65°	157.7	156.7	160.7	162.7	162.7	157.8	151.6	146.5	144.5
67.5°	134.0	135.4	138.7	139.9	140.9	135.0	129.0	125.7	124.7
70°	120.3	119.3	123.3	125.3	126.3	120.4	115.2	111.1	110.2
72.5°	105.7	105.5	108.7	110.8	111.0	105.0	100.7	97.4	94.8
75°	83.9	84.9	86.9	86.9	86.9	83.0	79.8	76.8	74.8
77.5°	62.5	63.4	65.3	67.1	66.1	62.5	59.4	56.4	54.6
80°	49.5	50.5	51.5	52.5	51.5	49.6	46.5	43.4	42.4
82.5°	36.6	36.8	39.4	39.6	38.6	36.6	34.4	31.3	31.1
85°	18.2	19.2	21.2	21.2	20.2	19.2	17.2	15.1	14.1
87.5°	4.0	4.8	6.5	8.0	6.5	6.5	4.9	3.2	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.8	0.8	1.6	2.5	4.0	15.1	17.0	15.3	14.6
95°	4.0	4.0	6.1	19.2	19.2	31.1	42.4	41.4	41.4
97.5°	9.1	10.1	14.1	58.5	43.7	42.5	60.6	66.7	67.3
100°	13.1	14.1	22.2	95.3	64.7	54.8	64.7	78.9	81.9
102.5°	18.0	19.8	35.2	150.5	91.4	65.7	76.0	86.2	89.1
105°	27.3	30.3	73.8	252.1	139.5	87.1	96.0	101.1	102.1
107.5°	41.0	52.1	201.9	354.6	197.9	115.3	120.5	123.9	125.1
110°	55.6	79.3	350.7	416.5	241.5	136.8	133.4	142.5	140.5



TEST NUMBER: P522540

CATALOG NUMBER: SQW-F-075U-025D-93050-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	93.6	163.2	514.8	467.2	285.2	162.3	145.5	160.3	161.5
115°	261.8	449.5	688.2	539.5	351.7	206.4	164.7	179.0	184.9
117.5°	656.9	781.6	779.6	606.3	415.6	258.5	187.8	194.6	201.3
120°	883.3	902.1	825.7	651.5	456.8	295.7	207.2	204.3	210.2
122.5°	967.4	952.2	860.5	691.2	498.9	334.6	232.2	214.8	219.9
125°	1040.0	1010.3	905.5	747.7	560.9	391.9	277.9	237.5	236.5
127.5°	1080.2	1049.1	949.6	796.8	617.9	451.5	329.9	269.6	260.5
130°	1099.6	1070.9	980.3	826.9	655.9	491.9	367.9	297.8	284.0
132.5°	1123.0	1092.0	1002.2	857.7	692.3	529.8	405.9	331.7	315.5
135°	1146.1	1117.4	1037.9	898.0	743.8	585.7	460.9	387.6	366.9
137.5°	1166.7	1140.4	1070.7	929.7	790.3	640.7	519.1	447.7	422.4
140°	1180.4	1151.8	1084.4	954.0	818.6	675.3	557.9	486.7	466.9
142.5°	1185.3	1167.7	1099.0	974.5	850.2	708.4	596.7	523.1	504.9
145°	1199.6	1187.8	1116.8	999.0	887.3	757.9	655.9	579.7	559.9
147.5°	1208.9	1191.1	1133.1	1025.5	923.7	802.2	709.7	636.5	618.1
150°	1209.7	1195.9	1146.1	1041.9	948.0	834.3	742.8	673.7	656.9
152.5°	1216.2	1199.2	1152.5	1055.7	965.8	861.6	776.0	711.7	693.3
155°	1211.8	1199.9	1162.2	1073.5	993.5	896.6	822.7	765.7	749.9
157.5°	1211.8	1197.1	1163.5	1087.3	1020.1	935.2	866.3	813.7	801.8
160°	1203.7	1197.7	1164.3	1097.1	1033.9	956.8	895.4	847.6	831.8
162.5°	1200.4	1190.6	1165.9	1103.7	1046.0	974.5	920.5	875.1	863.3
165°	1186.5	1177.6	1156.2	1106.7	1065.2	1005.9	957.1	916.5	910.6
167.5°	1170.5	1163.6	1149.5	1111.5	1078.0	1029.5	988.4	955.7	947.6
170°	1159.2	1148.3	1143.0	1114.1	1084.4	1043.9	1008.6	979.1	970.2
172.5°	1139.8	1138.4	1134.1	1107.9	1090.1	1056.7	1027.2	1000.2	994.5
175°	1116.8	1116.8	1119.8	1103.5	1097.6	1069.9	1049.0	1032.7	1023.8
177.5°	1090.1	1090.9	1097.4	1096.6	1097.4	1081.5	1075.5	1060.1	1058.5
180°	1084.4	1084.4	1084.4	1084.4	1084.4	1084.4	1084.4	1084.4	1084.4

(END OF REPORT)