

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: P522538

Luminaire Tested: **SQW-F-075U-025D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522538
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 (3000K)
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 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

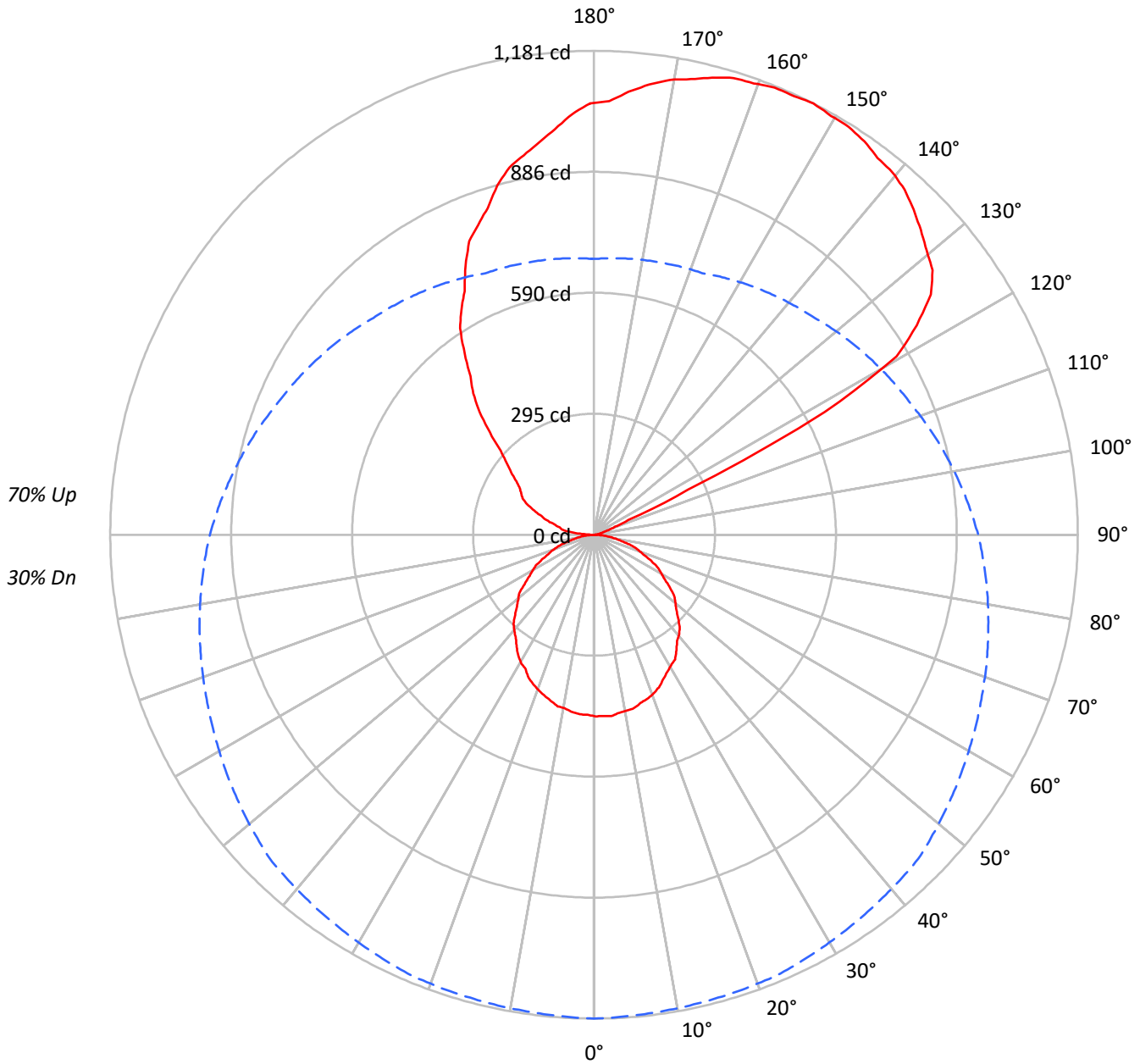
Lumens per Lamp: N/A
Luminaire Lumens: 4159.7 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

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



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Luminous Intensity Polar Plot



— Vertical Plane Through 0° Lateral - - - Horizontal Cone Through 152.5° 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	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°	7161	7161	7161
5°	7204	7237	7125
10°	7158	7174	7047
15°	7117	7168	7004
20°	7115	7132	6930
25°	6975	7062	6852
30°	6896	6969	6714
35°	6828	6865	6556
40°	6742	6742	6433
45°	6542	6677	6272
50°	6458	6581	6111
55°	6269	6435	5855
60°	6051	6242	5641
65°	5849	6036	5360
70°	5514	5792	5051
75°	5078	5265	4529
80°	4472	4649	3831
85°	3279	3631	2538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.9	1.0
10°-20°	119.8	2.9
20°-30°	180.0	4.3
30°-40°	214.8	5.2
40°-50°	220.7	5.3
50°-60°	198.0	4.8
60°-70°	149.9	3.6
70°-80°	85.6	2.1
80°-90°	22.4	0.5
90°-100°	26.6	0.6
100°-110°	117.9	2.8
110°-120°	338.9	8.1
120°-130°	516.3	12.4
130°-140°	560.4	13.5
140°-150°	535.9	12.9
150°-160°	441.5	10.6
160°-170°	288.9	6.9
170°-180°	100.0	2.4
0°-30°	341.7	8.2
0°-40°	556.5	13.4
0°-60°	975.2	23.4
0°-90°	1233.2	29.6
90°-120°	483.5	11.6
90°-150°	2096.1	50.4
90°-180°	2926.0	70.3
0°-180°	4159.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	444	444	444	444	444	
5°	444	442	446	440	440	42
15°	426	429	429	425	419	121
25°	392	395	396	392	385	181
35°	346	348	348	340	333	217
45°	286	292	292	282	275	222
55°	223	228	229	217	208	199
65°	153	156	158	147	140	151
75°	81	84	84	78	73	86
85°	18	21	20	17	14	22
90°	0	0	0	0	0	1
95°	4	6	19	41	40	5
105°	26	72	135	93	99	31
115°	254	668	342	160	180	351
125°	1010	879	545	270	230	886
135°	1113	1008	722	447	356	859
145°	1165	1084	862	637	544	730
155°	1176	1128	964	799	728	545
165°	1152	1122	1034	929	884	327
175°	1084	1087	1066	1018	994	105
180°	1053	1053	1053	1053	1053	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	443.5	443.5	443.5	443.5	443.5	443.5	443.5	443.5	443.5
2.5°	442.7	443.5	445.1	442.8	445.9	442.8	443.5	441.9	439.6
5°	444.5	442.6	442.5	442.6	446.5	441.7	439.6	438.6	439.6
7.5°	439.0	439.4	439.2	438.9	443.1	435.6	438.6	435.7	436.1
10°	436.6	434.7	437.6	435.7	437.6	434.7	434.7	431.7	429.8
12.5°	434.3	433.1	434.5	431.1	436.8	429.4	428.4	427.8	428.2
15°	425.8	428.7	428.8	425.9	428.8	422.1	424.9	420.9	419.0
17.5°	421.1	418.3	419.6	417.3	420.5	415.0	414.7	410.6	411.1
20°	414.1	411.2	414.1	410.3	415.1	406.4	409.2	404.2	403.3
22.5°	404.7	404.1	407.8	404.7	405.6	400.8	400.5	394.8	393.9
25°	391.5	392.5	395.4	390.7	396.4	388.7	391.5	382.7	384.6
27.5°	380.1	380.3	383.7	381.3	382.5	376.5	376.8	369.3	368.0
30°	369.9	370.9	375.8	371.9	373.8	367.1	368.9	359.1	360.1
32.5°	362.9	360.7	364.8	361.0	364.4	357.7	357.9	350.5	349.1
35°	346.4	346.4	348.3	348.3	348.3	341.6	340.5	333.6	332.6
37.5°	329.3	328.5	335.2	330.1	332.4	326.9	324.8	318.1	316.9
40°	319.9	316.0	321.8	319.9	319.9	315.1	313.0	307.1	305.2
42.5°	306.5	305.8	310.1	308.9	311.2	303.4	301.2	294.5	293.4
45°	286.5	287.5	292.4	290.5	292.4	287.6	281.6	276.7	274.7
47.5°	269.6	268.1	272.8	272.6	274.5	267.3	264.5	257.1	256.7
50°	257.1	257.1	261.0	260.1	262.0	256.2	251.2	245.3	243.3
52.5°	244.5	243.0	247.7	247.5	247.9	242.9	237.8	232.7	231.6
55°	222.7	223.7	227.6	227.7	228.6	223.8	216.8	210.9	208.0
57.5°	202.3	201.8	205.5	206.6	206.6	201.8	195.7	190.7	189.6
60°	187.4	188.4	191.3	193.3	193.3	188.5	181.5	176.6	174.7
62.5°	173.3	173.5	177.2	178.4	180.0	174.4	168.2	163.2	161.3
65°	153.1	152.1	156.0	158.0	158.0	153.2	147.2	142.2	140.3
67.5°	130.1	131.5	134.6	135.8	136.8	131.0	125.2	122.0	121.1
70°	116.8	115.8	119.7	121.7	122.7	116.9	111.9	107.9	107.0
72.5°	102.6	102.4	105.6	107.5	107.7	102.0	97.7	94.5	92.0
75°	81.4	82.4	84.4	84.4	84.4	80.5	77.5	74.5	72.6
77.5°	60.6	61.6	63.4	65.1	64.2	60.7	57.7	54.7	53.0
80°	48.1	49.0	50.0	51.0	50.0	48.1	45.1	42.2	41.2
82.5°	35.5	35.7	38.3	38.4	37.5	35.6	33.4	30.4	30.2
85°	17.7	18.6	20.6	20.6	19.6	18.7	16.7	14.7	13.7
87.5°	3.9	4.7	6.3	7.8	6.3	6.3	4.7	3.1	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	2.4	3.9	14.7	16.5	14.9	14.1
95°	3.9	3.9	5.9	18.6	18.6	30.2	41.2	40.2	40.2
97.5°	8.8	9.8	13.7	56.8	42.4	41.2	58.9	64.8	65.3
100°	12.8	13.7	21.6	92.5	62.8	53.2	62.8	76.6	79.5
102.5°	17.5	19.2	34.1	146.1	88.7	63.8	73.8	83.7	86.5
105°	26.5	29.4	71.6	244.8	135.4	84.6	93.2	98.1	99.1
107.5°	39.8	50.6	196.0	344.3	192.1	111.9	117.0	120.3	121.5
110°	54.0	77.0	340.5	404.3	234.5	132.8	129.5	138.3	136.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	90.9	158.4	499.8	453.6	276.9	157.5	141.3	155.6	156.8
115°	254.1	436.4	668.2	523.7	341.5	200.4	159.9	173.8	179.6
117.5°	637.8	758.9	756.9	588.6	403.5	250.9	182.3	188.9	195.5
120°	857.6	875.8	801.6	632.5	443.5	287.1	201.1	198.3	204.1
122.5°	939.2	924.4	835.4	671.0	484.3	324.9	225.5	208.5	213.5
125°	1009.7	980.9	879.2	725.9	544.6	380.5	269.8	230.6	229.6
127.5°	1048.7	1018.6	921.9	773.6	599.9	438.3	320.3	261.8	253.0
130°	1067.6	1039.7	951.8	802.8	636.8	477.5	357.2	289.2	275.7
132.5°	1090.3	1060.2	973.0	832.7	672.1	514.4	394.1	322.1	306.3
135°	1112.7	1084.9	1007.7	871.8	722.2	568.7	447.4	376.3	356.2
137.5°	1132.7	1107.2	1039.5	902.6	767.3	622.1	504.0	434.7	410.1
140°	1146.1	1118.2	1052.8	926.2	794.8	655.7	541.6	472.5	453.3
142.5°	1150.8	1133.7	1067.0	946.1	825.4	687.8	579.3	507.9	490.2
145°	1164.7	1153.2	1084.2	969.9	861.5	735.8	636.8	562.8	543.6
147.5°	1173.7	1156.5	1100.1	995.6	896.8	778.8	689.0	618.0	600.1
150°	1174.5	1161.1	1112.7	1011.5	920.4	810.0	721.2	654.1	637.8
152.5°	1180.8	1164.3	1119.0	1025.0	937.6	836.5	753.4	691.0	673.1
155°	1176.5	1165.0	1128.4	1042.2	964.5	870.5	798.7	743.4	728.1
157.5°	1176.5	1162.3	1129.6	1055.7	990.4	907.9	841.1	790.0	778.5
160°	1168.6	1162.9	1130.4	1065.2	1003.8	928.9	869.4	822.9	807.5
162.5°	1165.5	1155.9	1131.9	1071.6	1015.6	946.1	893.7	849.7	838.2
165°	1151.9	1143.3	1122.5	1074.5	1034.2	976.6	929.2	889.8	884.1
167.5°	1136.4	1129.7	1116.0	1079.2	1046.6	999.5	959.6	927.9	920.0
170°	1125.4	1114.9	1109.8	1081.6	1052.8	1013.5	979.2	950.6	942.0
172.5°	1106.6	1105.3	1101.1	1075.6	1058.3	1025.9	997.3	971.1	965.5
175°	1084.2	1084.2	1087.2	1071.4	1065.6	1038.7	1018.5	1002.6	994.0
177.5°	1058.3	1059.1	1065.4	1064.6	1065.4	1050.0	1044.2	1029.3	1027.7
180°	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8

(END OF REPORT)