

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: P511779

Luminaire Tested: **SQW-F-075U-025D-830-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511779
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-830-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

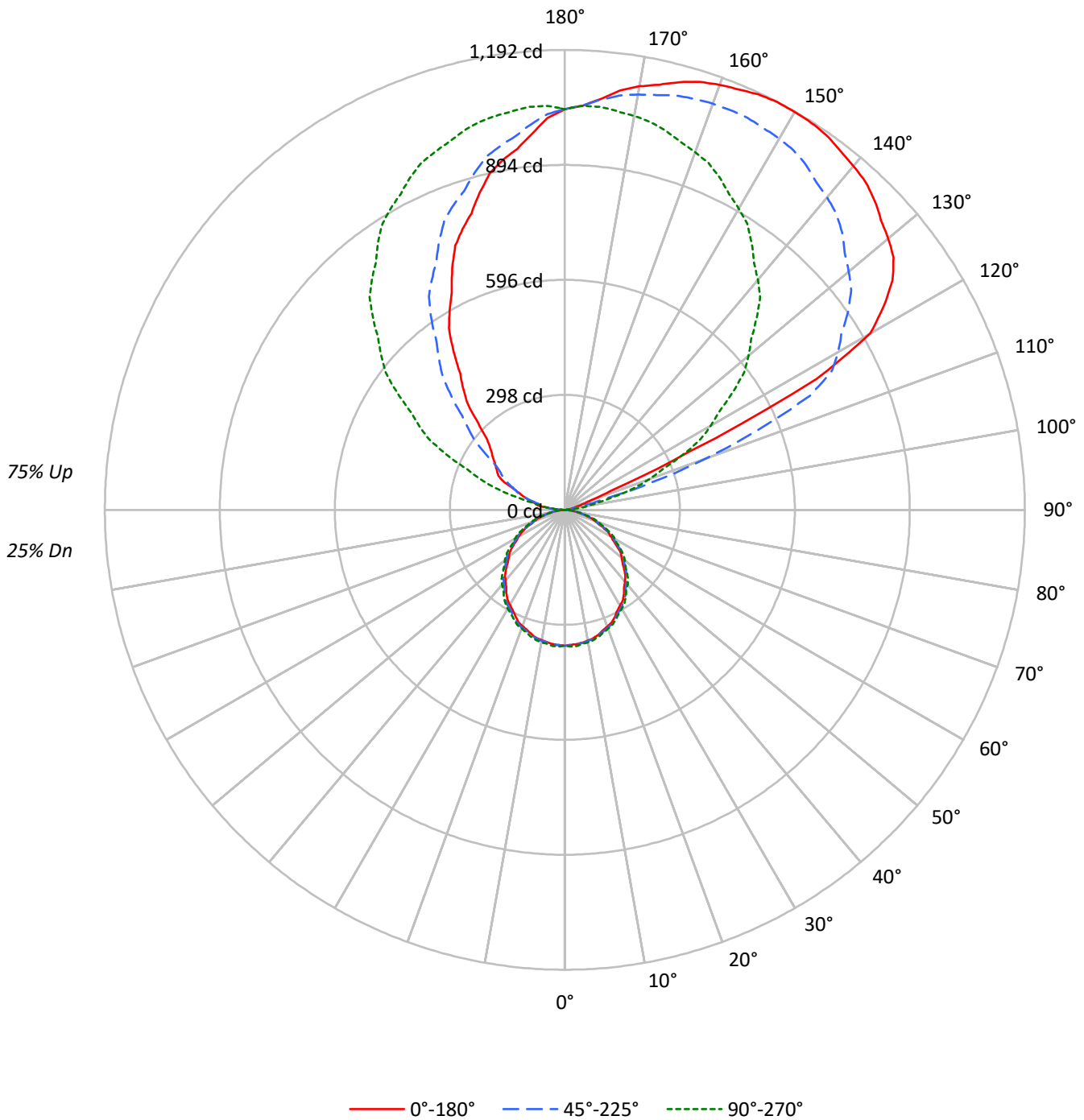
Lumens per Lamp: N/A
Luminaire Lumens: 3863.8 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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°	11373	11373	11373
5°	11326	11478	11326
10°	11270	11424	11240
15°	11209	11367	11146
20°	11069	11261	11034
25°	10906	11142	10803
30°	10675	11026	10605
35°	10506	10841	10395
40°	10201	10678	10083
45°	9933	10367	9805
50°	9651	10173	9510
55°	9278	9914	9278
60°	8880	9610	8880
65°	8420	9207	8420
70°	7827	8715	7733
75°	6812	7873	6937
80°	5597	6471	5783
85°	3149	4520	3853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.3	0.9
10°-20°	94.8	2.5
20°-30°	142.0	3.7
30°-40°	168.5	4.4
40°-50°	171.2	4.4
50°-60°	152.5	3.9
60°-70°	113.9	2.9
70°-80°	62.6	1.6
80°-90°	15.4	0.4
90°-100°	26.2	0.7
100°-110°	121.4	3.1
110°-120°	354.0	9.2
120°-130°	514.4	13.3
130°-140°	550.4	14.2
140°-150°	526.6	13.6
150°-160°	434.2	11.2
160°-170°	284.0	7.3
170°-180°	98.5	2.5
0°-30°	270.0	7.0
0°-40°	438.4	11.3
0°-60°	762.2	19.7
0°-90°	954.0	24.7
90°-120°	501.6	13.0
90°-150°	2093.1	54.2
90°-180°	2910.0	75.3
0°-180°	3863.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	352	352	352	352	352	
5°	349	350	354	350	349	33
15°	335	337	340	335	333	94
25°	306	310	313	309	303	141
35°	266	272	275	270	264	166
45°	218	224	227	222	215	168
55°	165	172	176	170	165	148
65°	110	115	120	115	110	109
75°	55	58	63	58	56	59
85°	8	11	12	12	10	12
90°	2	2	1	4	8	1
95°	8	10	20	32	29	8
105°	32	94	135	86	93	39
115°	356	701	337	161	178	418
125°	1036	896	531	246	224	917
135°	1135	1016	703	414	317	876
145°	1184	1090	844	602	503	741
155°	1188	1120	950	769	690	549
165°	1148	1112	1016	904	851	326
175°	1069	1067	1048	1003	978	104
180°	1038	1038	1038	1038	1038	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	352.2	352.2	352.2	352.2	352.2	352.2	352.2	352.2	352.2
2.5°	350.0	351.4	351.5	351.5	354.5	351.5	351.5	351.4	350.7
5°	349.4	349.4	350.3	350.4	354.1	350.4	350.3	349.4	349.4
7.5°	346.8	346.9	347.9	347.8	350.7	346.8	346.9	346.7	346.6
10°	343.7	344.7	345.6	344.8	348.4	343.8	344.7	343.7	342.8
12.5°	340.7	341.6	342.6	341.7	345.4	341.6	341.7	340.7	340.5
15°	335.3	336.2	337.1	336.3	340.0	335.4	335.3	334.3	333.4
17.5°	327.4	329.0	330.4	329.5	333.0	328.6	329.4	327.1	325.7
20°	322.1	323.0	325.8	325.0	327.7	324.0	324.9	321.1	321.1
22.5°	316.0	317.0	319.8	319.0	322.5	318.0	318.9	315.1	314.4
25°	306.1	307.0	309.8	309.0	312.7	308.1	308.9	304.2	303.2
27.5°	294.6	295.7	300.2	299.4	303.2	297.7	298.5	293.8	292.7
30°	286.3	288.1	291.9	291.1	295.7	290.2	291.0	286.2	284.4
32.5°	278.8	280.6	283.7	284.3	287.4	282.6	282.7	278.0	276.1
35°	266.5	268.4	272.2	272.2	275.0	270.4	270.3	265.5	263.7
37.5°	252.6	254.2	258.4	259.6	261.6	257.4	256.3	251.6	249.8
40°	242.0	242.9	248.6	250.6	253.3	246.9	245.8	241.0	239.2
42.5°	232.2	233.9	238.8	240.0	242.0	237.8	236.0	231.3	229.4
45°	217.5	219.4	224.1	226.0	227.0	223.3	222.3	217.5	214.7
47.5°	202.7	204.5	209.3	211.3	212.3	209.5	206.6	202.6	199.8
50°	192.1	194.0	198.7	201.6	202.5	199.7	196.8	192.1	189.3
52.5°	182.3	183.4	188.2	191.7	191.9	189.9	186.3	181.5	179.5
55°	164.8	167.6	172.3	176.1	176.1	174.3	170.5	165.7	164.8
57.5°	149.5	150.7	155.4	159.2	159.3	158.2	154.4	149.7	148.8
60°	137.5	139.3	144.1	147.9	148.8	147.0	143.1	138.4	137.5
62.5°	127.7	128.1	132.8	136.6	137.5	135.7	131.8	127.9	126.2
65°	110.2	111.1	114.9	119.6	120.5	118.7	114.9	111.1	110.2
67.5°	93.4	94.3	97.9	102.5	103.6	101.8	97.0	94.2	93.2
70°	82.9	83.8	86.6	90.4	92.3	90.4	85.7	82.9	81.9
72.5°	71.6	72.5	75.3	79.1	80.2	78.4	74.4	72.3	71.4
75°	54.6	56.5	58.4	62.2	63.1	62.2	58.4	56.5	55.6
77.5°	39.9	40.9	42.8	45.4	46.1	45.4	43.7	40.9	40.9
80°	30.1	31.1	33.0	34.8	34.8	34.8	33.9	31.1	31.1
82.5°	21.1	22.0	23.2	25.8	25.1	25.8	24.9	22.8	22.0
85°	8.5	9.4	11.3	13.2	12.2	13.2	12.2	10.4	10.4
87.5°	1.1	1.9	1.9	4.0	4.0	4.9	3.8	3.6	3.8
90°	2.0	2.0	2.0	1.0	1.0	1.9	3.9	6.9	7.8
92.5°	3.5	4.3	4.3	4.9	5.7	11.2	7.8	9.2	9.4
95°	7.8	7.8	9.8	23.3	19.5	29.1	32.2	30.2	29.3
97.5°	12.9	13.8	18.9	61.3	43.9	39.0	53.1	56.7	53.3
100°	17.6	18.5	28.3	96.8	63.4	50.1	58.6	69.3	71.3
102.5°	23.0	24.8	43.9	149.3	89.2	63.6	67.2	77.2	79.8
105°	32.2	37.0	93.7	247.3	134.7	84.1	85.9	88.9	92.7
107.5°	50.0	67.2	238.0	351.0	190.7	110.4	114.2	111.5	111.7
110°	70.3	106.5	389.4	410.7	231.3	131.1	129.8	127.8	124.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	127.3	223.1	542.5	463.6	274.3	153.4	142.3	151.2	145.2
115°	356.3	540.4	700.8	536.2	336.7	191.7	161.0	173.8	177.6
117.5°	734.8	818.2	779.7	600.7	396.5	236.3	179.0	188.1	194.4
120°	913.6	910.7	817.9	640.5	436.3	269.3	192.3	198.2	203.0
122.5°	979.2	951.9	849.9	676.5	474.5	304.5	210.2	206.9	212.4
125°	1036.5	999.3	896.0	725.6	531.0	358.2	246.0	220.7	224.5
127.5°	1073.8	1033.0	935.4	770.8	585.6	415.2	293.2	242.5	238.0
130°	1094.1	1054.1	960.4	798.3	620.8	451.8	326.0	264.2	252.8
132.5°	1111.3	1073.5	983.8	825.0	655.1	489.2	361.1	291.5	274.7
135°	1135.1	1098.9	1016.1	864.0	702.7	543.4	413.8	341.1	317.2
137.5°	1153.3	1120.3	1041.4	899.0	749.0	596.7	469.1	395.9	371.5
140°	1163.4	1131.9	1057.0	921.1	777.9	630.9	506.6	431.9	409.0
142.5°	1172.8	1142.1	1070.3	940.7	805.2	663.6	544.8	468.6	445.7
145°	1183.9	1154.3	1090.2	969.3	844.3	712.6	602.2	524.6	502.7
147.5°	1189.2	1161.9	1104.5	994.7	879.2	757.8	655.5	581.0	558.9
150°	1190.8	1165.0	1110.7	1009.7	901.9	787.3	689.1	619.3	596.4
152.5°	1191.5	1165.0	1115.4	1022.4	922.2	813.7	721.9	656.0	634.6
155°	1187.8	1164.0	1120.5	1037.5	949.7	851.4	769.1	709.1	690.1
157.5°	1179.2	1161.7	1121.3	1050.2	972.7	886.6	814.0	759.1	741.2
160°	1172.2	1156.9	1120.5	1057.4	986.8	907.6	841.3	791.2	774.0
162.5°	1162.8	1147.6	1116.6	1060.7	999.3	926.9	867.1	819.4	805.2
165°	1147.8	1133.5	1111.7	1065.7	1016.1	955.9	903.8	862.6	851.1
167.5°	1128.7	1119.7	1101.0	1067.7	1029.5	980.9	937.4	903.8	894.0
170°	1114.6	1108.0	1093.2	1067.1	1036.5	995.5	958.5	928.1	921.4
172.5°	1096.7	1093.0	1083.0	1064.2	1042.0	1008.6	977.2	950.7	944.0
175°	1068.8	1070.7	1066.8	1059.7	1048.3	1025.4	1003.4	984.7	978.0
177.5°	1047.9	1047.9	1048.7	1049.4	1047.9	1037.9	1026.8	1015.9	1016.6
180°	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5

(END OF REPORT)