

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: P511784

Luminaire Tested: **SQW-F-075U-025D-940-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511784
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-940-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

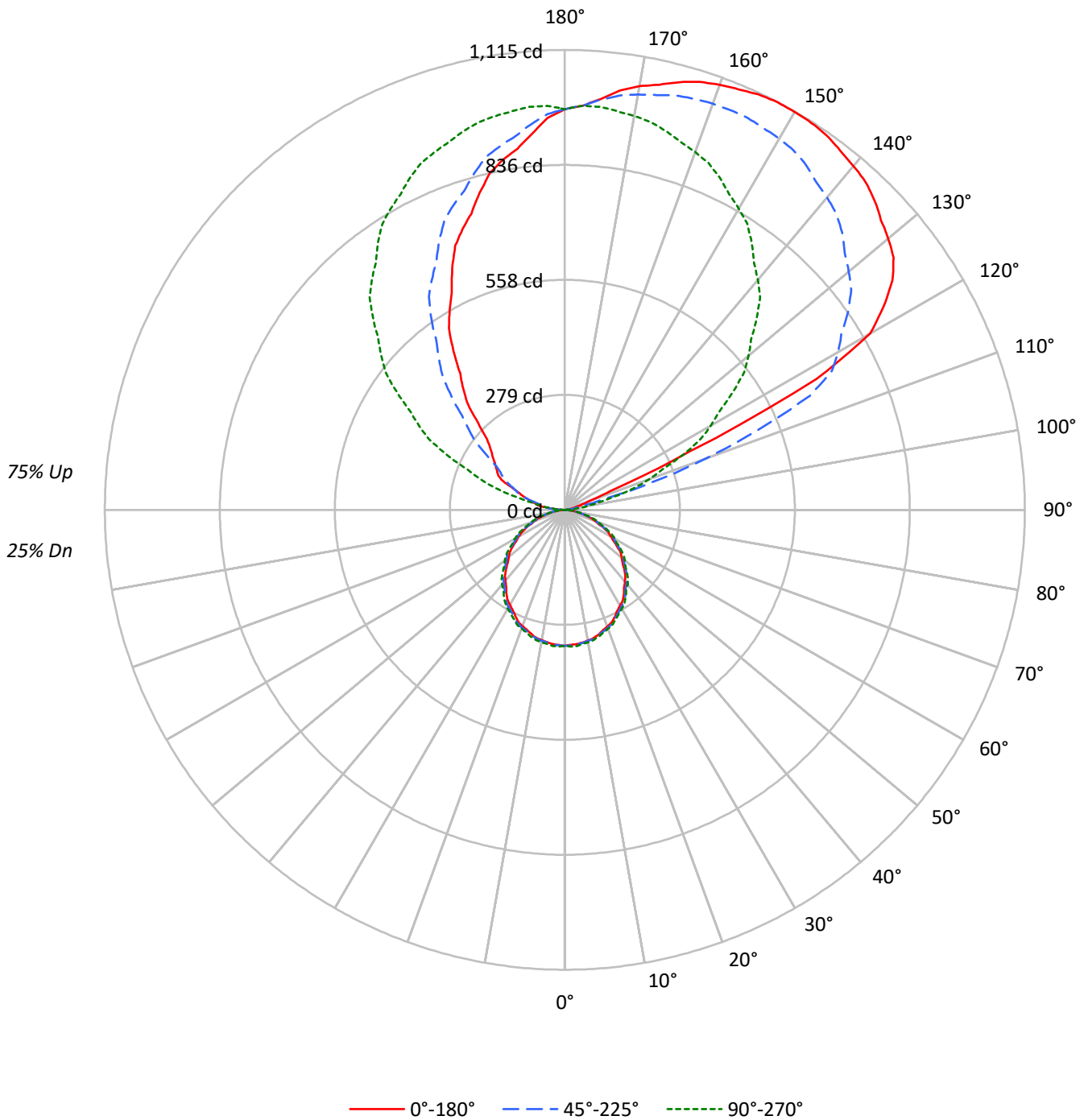
Lumens per Lamp: N/A
Luminaire Lumens: 3614.3 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Indirect

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°	10640	10640	10640
5°	10593	10736	10593
10°	10542	10686	10516
15°	10484	10631	10427
20°	10354	10536	10323
25°	10201	10422	10108
30°	9986	10314	9918
35°	9828	10139	9725
40°	9544	9991	9434
45°	9293	9695	9175
50°	9028	9515	8897
55°	8681	9272	8681
60°	8305	8990	8305
65°	7878	8619	7878
70°	7317	8148	7232
75°	6376	7361	6488
80°	5244	6062	5411
85°	2927	4261	3594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.1	0.9
10°-20°	88.6	2.5
20°-30°	132.8	3.7
30°-40°	157.6	4.4
40°-50°	160.1	4.4
50°-60°	142.7	3.9
60°-70°	106.5	2.9
70°-80°	58.6	1.6
80°-90°	14.4	0.4
90°-100°	24.5	0.7
100°-110°	113.6	3.1
110°-120°	331.2	9.2
120°-130°	481.2	13.3
130°-140°	514.9	14.2
140°-150°	492.6	13.6
150°-160°	406.2	11.2
160°-170°	265.7	7.3
170°-180°	92.1	2.5
0°-30°	252.5	7.0
0°-40°	410.1	11.3
0°-60°	712.9	19.7
0°-90°	892.4	24.7
90°-120°	469.2	13.0
90°-150°	1958.0	54.2
90°-180°	2722.0	75.3
0°-180°	3614.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	330	330	330	330	330	
5°	327	328	331	328	327	31
15°	314	315	318	314	312	88
25°	286	290	292	289	284	132
35°	249	255	257	253	247	155
45°	204	210	212	208	201	157
55°	154	161	165	159	154	138
65°	103	108	113	108	103	102
75°	51	55	59	55	52	55
85°	8	11	12	12	10	11
90°	2	2	1	4	7	1
95°	7	9	18	30	27	8
105°	30	88	126	80	87	37
115°	333	656	315	151	166	391
125°	970	838	497	230	210	857
135°	1062	950	657	387	297	819
145°	1108	1020	790	563	470	694
155°	1111	1048	888	720	646	513
165°	1074	1040	950	846	796	305
175°	1000	998	981	939	915	97
180°	971	971	971	971	971	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	329.5	329.5	329.5	329.5	329.5	329.5	329.5	329.5	329.5
2.5°	327.4	328.7	328.8	328.8	331.6	328.8	328.8	328.8	328.1
5°	326.8	326.8	327.7	327.8	331.2	327.8	327.7	326.8	326.8
7.5°	324.4	324.5	325.4	325.3	328.1	324.4	324.5	324.4	324.2
10°	321.5	322.4	323.3	322.5	325.9	321.6	322.4	321.5	320.7
12.5°	318.7	319.6	320.5	319.7	323.1	319.5	319.6	318.7	318.5
15°	313.6	314.5	315.4	314.6	318.0	313.7	313.6	312.7	311.9
17.5°	306.2	307.8	309.0	308.2	311.5	307.4	308.2	306.0	304.6
20°	301.3	302.1	304.8	304.0	306.6	303.1	303.9	300.4	300.4
22.5°	295.6	296.5	299.2	298.4	301.6	297.5	298.3	294.7	294.1
25°	286.3	287.2	289.8	289.0	292.5	288.2	288.9	284.5	283.7
27.5°	275.6	276.6	280.8	280.0	283.7	278.5	279.3	274.8	273.8
30°	267.8	269.5	273.1	272.3	276.6	271.4	272.2	267.8	266.0
32.5°	260.8	262.5	265.3	265.9	268.9	264.4	264.5	260.0	258.3
35°	249.3	251.0	254.6	254.7	257.2	252.9	252.8	248.4	246.7
37.5°	236.3	237.8	241.7	242.8	244.7	240.8	239.8	235.3	233.6
40°	226.4	227.3	232.6	234.4	237.0	230.9	229.9	225.5	223.8
42.5°	217.2	218.8	223.4	224.5	226.4	222.4	220.8	216.3	214.6
45°	203.5	205.2	209.7	211.4	212.3	208.9	207.9	203.4	200.9
47.5°	189.6	191.3	195.7	197.7	198.6	196.0	193.3	189.5	186.9
50°	179.7	181.4	185.9	188.5	189.4	186.8	184.1	179.7	177.1
52.5°	170.5	171.6	176.0	179.4	179.5	177.6	174.2	169.8	167.9
55°	154.2	156.7	161.2	164.7	164.7	163.0	159.4	155.0	154.2
57.5°	139.9	140.9	145.4	148.9	149.1	148.0	144.5	140.0	139.2
60°	128.6	130.3	134.8	138.3	139.2	137.5	133.9	129.5	128.6
62.5°	119.5	119.8	124.2	127.8	128.6	126.9	123.3	119.6	118.0
65°	103.1	103.9	107.5	111.9	112.8	111.0	107.5	103.9	103.1
67.5°	87.4	88.3	91.6	95.9	96.9	95.2	90.7	88.1	87.2
70°	77.5	78.4	81.0	84.6	86.3	84.6	80.2	77.5	76.6
72.5°	67.0	67.8	70.5	74.0	75.1	73.3	69.6	67.6	66.8
75°	51.1	52.8	54.6	58.2	59.0	58.2	54.6	52.8	52.0
77.5°	37.4	38.2	40.0	42.5	43.2	42.5	40.9	38.2	38.2
80°	28.2	29.1	30.8	32.6	32.6	32.6	31.7	29.1	29.1
82.5°	19.7	20.6	21.7	24.1	23.4	24.1	23.3	21.3	20.6
85°	7.9	8.8	10.6	12.3	11.5	12.3	11.5	9.7	9.7
87.5°	1.1	1.8	1.8	3.7	3.7	4.6	3.5	3.4	3.6
90°	1.8	1.8	1.8	0.9	0.9	1.8	3.7	6.4	7.3
92.5°	3.3	4.0	4.0	4.6	5.3	10.5	7.3	8.6	8.8
95°	7.3	7.3	9.1	21.8	18.3	27.2	30.1	28.3	27.4
97.5°	12.1	12.9	17.7	57.3	41.1	36.4	49.7	53.1	49.9
100°	16.4	17.3	26.5	90.6	59.3	46.8	54.8	64.9	66.7
102.5°	21.5	23.2	41.1	139.7	83.4	59.5	62.8	72.2	74.7
105°	30.1	34.6	87.6	231.3	126.0	78.7	80.3	83.2	86.7
107.5°	46.7	62.8	222.6	328.4	178.4	103.2	106.8	104.3	104.4
110°	65.7	99.7	364.3	384.2	216.4	122.6	121.4	119.5	116.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	119.1	208.7	507.5	433.7	256.6	143.5	133.1	141.4	135.9
115°	333.3	505.5	655.5	501.6	315.0	179.3	150.6	162.6	166.2
117.5°	687.3	765.3	729.3	561.9	370.9	221.1	167.4	176.0	181.9
120°	854.6	851.9	765.1	599.2	408.1	251.9	179.9	185.4	189.9
122.5°	915.9	890.4	795.1	632.8	443.9	284.8	196.7	193.5	198.7
125°	969.6	934.8	838.1	678.8	496.7	335.1	230.1	206.4	210.0
127.5°	1004.5	966.3	875.0	721.0	547.8	388.4	274.3	226.9	222.6
130°	1023.5	986.0	898.4	746.7	580.7	422.7	304.9	247.2	236.5
132.5°	1039.6	1004.2	920.3	771.7	612.8	457.7	337.8	272.6	256.9
135°	1061.8	1027.9	950.4	808.2	657.4	508.3	387.1	319.0	296.7
137.5°	1078.8	1047.9	974.2	841.0	700.6	558.2	438.8	370.3	347.5
140°	1088.3	1058.9	988.8	861.6	727.7	590.2	473.9	404.0	382.6
142.5°	1097.1	1068.3	1001.2	880.0	753.2	620.8	509.6	438.3	416.9
145°	1107.5	1079.8	1019.8	906.7	789.8	666.6	563.3	490.7	470.2
147.5°	1112.4	1086.9	1033.2	930.5	822.4	708.9	613.2	543.5	522.8
150°	1113.9	1089.8	1039.0	944.5	843.6	736.5	644.6	579.3	557.9
152.5°	1114.6	1089.8	1043.4	956.4	862.6	761.2	675.3	613.6	593.6
155°	1111.1	1088.8	1048.1	970.5	888.4	796.4	719.5	663.4	645.5
157.5°	1103.1	1086.7	1048.9	982.4	909.9	829.4	761.5	710.1	693.3
160°	1096.5	1082.2	1048.1	989.1	923.1	849.0	787.0	740.1	724.0
162.5°	1087.8	1073.5	1044.5	992.2	934.7	867.1	811.1	766.5	753.2
165°	1073.7	1060.3	1039.9	996.9	950.4	894.2	845.5	806.9	796.2
167.5°	1055.8	1047.4	1029.9	998.8	963.0	917.5	876.9	845.4	836.3
170°	1042.7	1036.4	1022.6	998.2	969.6	931.2	896.6	868.1	861.9
172.5°	1025.9	1022.5	1013.1	995.4	974.7	943.5	914.1	889.3	883.1
175°	999.8	1001.5	997.9	991.3	980.6	959.2	938.6	921.1	914.8
177.5°	980.2	980.2	980.9	981.6	980.2	970.9	960.5	950.3	951.0
180°	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4

(END OF REPORT)