

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: P511736

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

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511736
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-15,
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-025U-075D-940-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

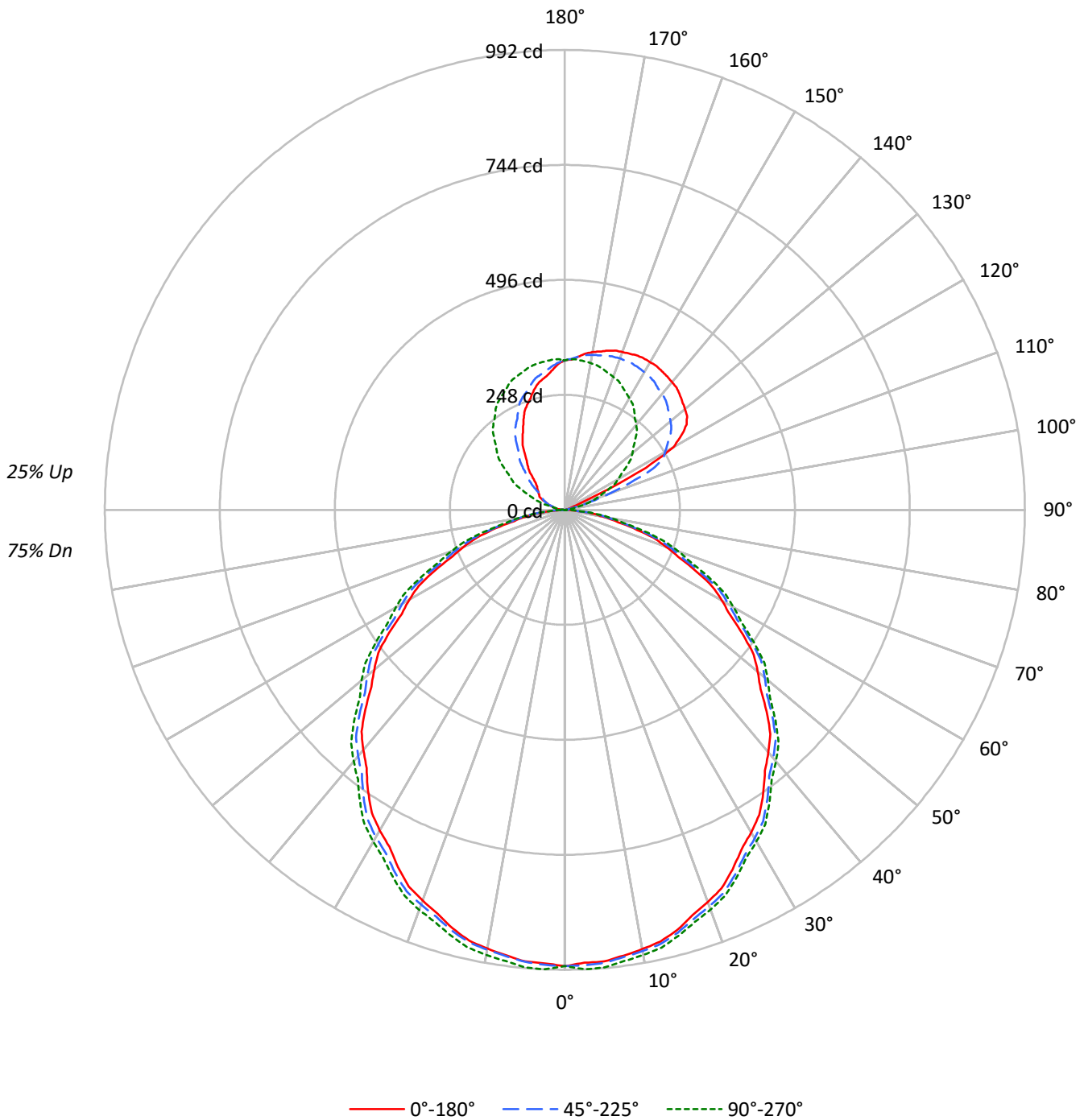
Lumens per Lamp: N/A
Luminaire Lumens: 3572.3 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 34.7
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





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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	50	30	10	0	
RCR																						
0	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75				
1	103	99	95	91	98	94	91	87	85	83	80	77	75	73	70	68	67	63				
2	94	86	80	74	89	82	76	72	75	70	66	68	64	61	61	59	56	53				
3	86	76	68	62	81	72	65	60	66	60	56	60	55	52	54	51	48	44				
4	78	67	59	52	74	64	57	51	59	52	47	53	48	44	48	44	41	38				
5	72	60	51	45	68	57	49	44	52	46	41	48	42	38	44	39	36	33				
6	66	54	45	39	63	52	44	38	47	41	36	43	38	33	40	35	31	29				
7	62	49	40	34	58	47	39	33	43	36	32	39	34	30	36	31	28	26				
8	57	44	36	31	54	43	35	30	39	33	28	36	31	26	33	28	25	23				
9	53	41	33	27	51	39	32	27	36	30	25	33	28	24	31	26	22	20				
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	31775	31775	31775
5°	31696	32098	31696
10°	31544	31977	31514
15°	31365	31776	31248
20°	30938	31543	30818
25°	30478	31201	30321
30°	29957	30811	29759
35°	29416	30350	29172
40°	28779	29858	28483
45°	28081	29328	27757
50°	27264	28721	26952
55°	26387	27969	26038
60°	25259	27138	24975
65°	23763	26048	23557
70°	21961	24538	21791
75°	19127	21984	19127
80°	15398	18354	15900
85°	8818	12412	10448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	2.6
10°-20°	265.1	7.4
20°-30°	397.2	11.1
30°-40°	472.3	13.2
40°-50°	483.5	13.5
50°-60°	431.1	12.1
60°-70°	322.1	9.0
70°-80°	175.6	4.9
80°-90°	41.4	1.2
90°-100°	7.9	0.2
100°-110°	36.2	1.0
110°-120°	104.9	2.9
120°-130°	158.2	4.4
130°-140°	169.4	4.7
140°-150°	161.9	4.5
150°-160°	134.1	3.8
160°-170°	88.0	2.5
170°-180°	30.5	0.9
0°-30°	755.3	21.1
0°-40°	1227.6	34.4
0°-60°	2142.1	60.0
0°-90°	2681.2	75.1
90°-120°	148.9	4.2
90°-150°	638.5	17.9
90°-180°	891.0	24.9
0°-180°	3572.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	984	984	984	984	984	
5°	978	980	990	979	978	93
15°	938	944	950	940	935	264
25°	855	869	876	865	851	394
35°	746	761	770	757	740	466
45°	615	633	642	626	608	474
55°	469	487	497	482	462	418
65°	311	327	341	325	308	308
75°	153	165	176	166	153	164
85°	24	31	34	34	28	34
90°	1	1	0	1	2	1
95°	3	3	6	11	9	3
105°	10	24	42	28	29	11
115°	83	210	103	52	56	111
125°	321	277	162	76	70	281
135°	351	314	215	127	97	271
145°	365	337	261	184	153	229
155°	368	347	293	238	211	170
165°	355	345	315	281	264	101
175°	331	331	325	311	303	32
180°	322	322	322	322	322	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	984.0	984.0	984.0	984.0	984.0	984.0	984.0	984.0	984.0
2.5°	977.7	982.5	983.3	982.1	991.8	982.8	982.6	982.5	979.1
5°	977.8	977.8	980.5	979.0	990.2	979.0	978.7	977.0	977.8
7.5°	969.7	970.8	972.7	971.0	981.5	970.2	970.8	968.2	969.6
10°	962.0	963.7	966.4	964.0	975.2	963.1	963.7	961.1	961.1
12.5°	953.5	955.3	958.6	955.5	966.7	955.4	955.3	951.9	951.9
15°	938.2	939.9	943.5	940.2	950.5	938.5	940.0	935.5	934.7
17.5°	916.5	920.1	924.8	921.5	932.0	919.8	920.6	914.6	913.0
20°	900.3	904.6	910.0	906.7	917.9	905.0	906.5	897.7	896.8
22.5°	883.4	887.0	894.5	891.2	901.7	889.5	891.0	879.3	879.2
25°	855.4	858.8	868.6	866.2	875.7	863.6	865.1	851.8	851.0
27.5°	825.3	829.7	839.5	837.3	846.8	833.8	835.3	821.0	819.3
30°	803.4	808.6	818.4	816.8	826.3	813.4	814.9	799.9	798.1
32.5°	780.2	786.7	796.5	795.7	804.5	792.2	791.6	777.3	774.9
35°	746.2	751.3	761.1	762.2	769.9	758.7	756.7	742.6	740.0
37.5°	708.8	714.1	724.0	726.2	732.9	721.9	718.7	704.5	701.8
40°	682.7	688.8	698.6	702.2	708.3	697.9	693.3	679.1	675.7
42.5°	655.9	662.7	673.2	676.9	682.2	671.9	666.5	653.0	648.9
45°	614.9	621.8	633.4	637.9	642.2	632.7	626.3	612.2	607.8
47.5°	572.3	579.1	591.1	596.6	599.9	592.2	584.8	570.6	565.4
50°	542.7	549.5	562.9	569.1	571.7	564.0	555.9	541.7	536.5
52.5°	513.8	520.0	533.3	540.2	542.1	535.8	527.0	513.5	507.6
55°	468.7	474.7	487.2	495.1	496.8	491.7	481.9	467.7	462.5
57.5°	422.1	428.2	440.5	449.3	451.2	446.0	435.4	422.9	417.0
60°	391.1	397.2	408.8	417.6	420.2	415.0	404.4	391.9	386.7
62.5°	359.4	364.1	376.3	385.2	389.2	384.7	373.3	359.5	355.0
65°	311.0	316.1	326.8	337.5	340.9	337.5	325.1	312.6	308.3
67.5°	264.3	267.7	277.5	288.0	292.3	288.5	277.3	264.6	261.8
70°	232.6	236.0	245.8	255.6	259.9	254.7	244.9	234.3	230.8
72.5°	199.4	202.9	212.0	221.7	225.3	220.2	211.8	202.5	198.4
75°	153.3	156.7	164.7	172.7	176.2	172.7	165.6	157.6	153.3
77.5°	110.3	113.6	120.5	127.4	129.0	126.7	121.7	114.8	111.5
80°	82.8	85.4	91.6	97.8	98.7	97.8	94.3	88.0	85.5
82.5°	58.1	60.0	66.2	71.0	70.5	72.4	68.9	63.4	61.5
85°	23.8	25.5	30.8	36.1	33.5	37.8	34.4	30.8	28.2
87.5°	3.0	3.0	5.8	9.9	9.2	11.9	9.3	7.2	6.0
90°	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	1.8
92.5°	0.9	1.6	0.9	1.4	1.4	3.5	3.0	2.3	2.5
95°	2.7	2.7	2.7	6.2	6.2	8.8	10.7	9.8	8.9
97.5°	3.9	3.9	5.2	17.5	13.9	11.8	16.5	17.1	17.1
100°	5.3	5.3	8.0	27.4	19.5	16.1	18.7	21.3	21.3
102.5°	6.8	7.4	12.3	42.8	27.4	19.7	21.5	23.5	24.2
105°	9.8	10.6	24.0	73.0	41.7	27.0	27.5	28.4	29.3
107.5°	14.6	18.0	60.2	104.3	59.2	34.8	36.8	35.2	35.2
110°	19.5	26.5	102.1	124.0	71.9	40.7	41.7	40.9	40.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	30.9	51.8	152.6	140.3	84.7	47.9	46.0	47.9	46.5
115°	82.6	134.7	209.6	163.0	103.0	59.6	51.5	55.1	56.0
117.5°	196.8	235.6	237.7	182.0	121.9	72.7	56.0	60.1	61.8
120°	270.0	276.1	250.5	194.0	133.2	82.0	59.5	62.2	63.9
122.5°	297.7	292.0	261.8	205.4	144.6	92.7	65.2	65.1	66.8
125°	320.6	308.5	277.1	222.5	162.5	109.6	76.4	69.3	70.2
127.5°	332.0	319.8	289.7	236.6	179.4	127.5	90.4	75.3	74.6
130°	338.4	326.2	297.5	246.5	190.1	138.8	100.4	81.6	78.2
132.5°	344.1	332.6	304.6	254.4	200.7	149.5	111.0	89.4	84.6
135°	350.8	339.5	313.5	266.2	214.9	166.3	127.0	103.8	96.8
137.5°	356.9	346.4	321.7	276.8	229.9	181.4	143.2	120.6	113.0
140°	359.7	349.3	326.0	283.2	239.8	192.0	154.5	131.3	124.3
142.5°	362.6	352.8	330.2	289.7	248.3	202.7	165.9	142.7	135.7
145°	365.0	356.4	336.6	298.5	261.1	217.7	183.9	159.7	152.8
147.5°	367.7	358.5	340.7	306.0	271.6	232.5	200.0	176.8	170.0
150°	367.7	359.9	342.8	311.0	278.0	242.4	211.4	188.2	182.1
152.5°	368.4	359.9	345.0	315.3	285.1	251.6	222.0	199.5	194.2
155°	367.7	359.9	347.3	320.9	293.1	263.6	238.0	216.6	211.4
157.5°	364.5	359.5	347.3	324.2	301.3	274.2	251.9	235.0	227.7
160°	362.4	358.0	347.3	326.4	305.5	281.2	261.1	245.0	239.8
162.5°	360.2	355.9	346.6	328.6	309.8	287.6	268.9	253.6	249.8
165°	355.3	351.8	344.6	330.1	315.3	296.2	280.7	267.3	263.8
167.5°	349.8	347.3	341.4	331.0	319.4	304.5	291.0	280.6	276.6
170°	345.5	343.8	339.3	331.1	321.5	309.4	296.7	287.7	285.1
172.5°	339.8	338.8	336.4	329.7	322.9	312.9	303.0	294.8	292.2
175°	331.3	331.3	331.3	328.5	325.1	318.1	310.9	304.6	302.9
177.5°	324.5	325.2	326.0	325.3	325.3	321.8	318.1	314.6	315.3
180°	322.4	322.4	322.4	322.4	322.4	322.4	322.4	322.4	322.4

(END OF REPORT)