

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: P511729

Luminaire Tested: **SQW-F-025U-050D-935-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511729
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-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

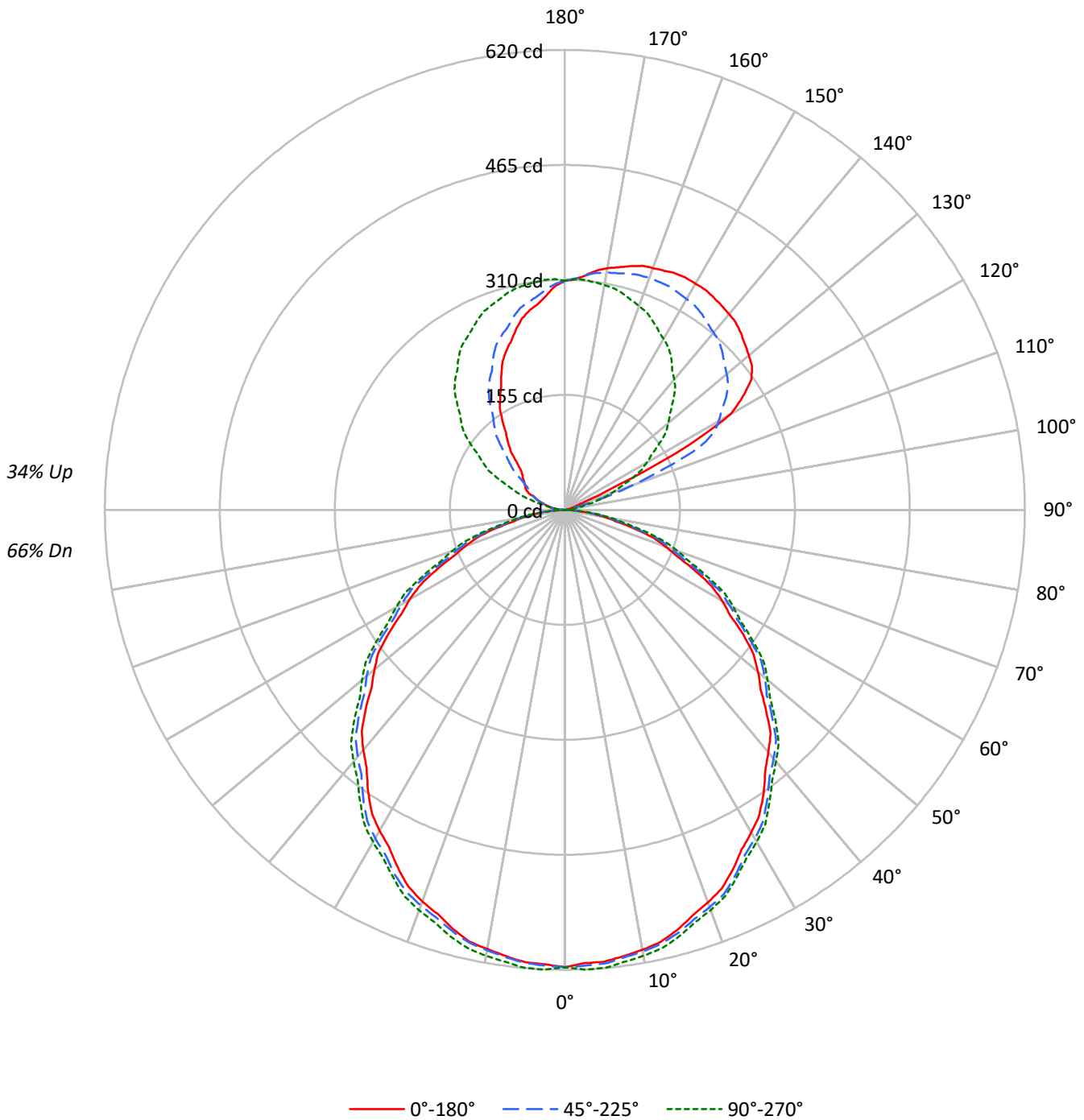
Lumens per Lamp: N/A
Luminaire Lumens: 2528.8 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 24.6
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	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71	66				
1	101	97	93	89	95	91	88	85	81	78	76	72	70	68	63	61	60	56				
2	92	85	78	73	87	80	74	69	71	67	63	63	59	56	55	53	50	47				
3	84	74	67	61	79	70	63	58	63	57	53	55	51	48	49	46	43	39				
4	77	66	58	51	72	62	55	49	56	50	45	49	45	41	44	40	37	34				
5	71	59	50	44	66	56	48	42	50	43	39	44	39	35	39	35	32	29				
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25				
7	60	48	39	34	57	45	38	32	41	34	30	36	31	27	32	28	25	23				
8	56	43	35	30	53	41	34	29	37	31	27	33	28	24	30	26	22	20				
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18				
10	49	36	29	24	46	35	28	23	31	26	21	28	23	20	25	21	18	16				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	19908	19908	19908
5°	19819	20094	19848
10°	19746	20022	19717
15°	19594	19905	19537
20°	19361	19735	19302
25°	19080	19500	18962
30°	18741	19278	18618
35°	18418	18950	18220
40°	17987	18666	17810
45°	17523	18331	17331
50°	17076	17920	16819
55°	16524	17475	16287
60°	15797	16940	15578
65°	14755	16107	14564
70°	13615	15210	13454
75°	11990	13787	11890
80°	9726	11604	9875
85°	5632	7818	6558



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	2.3
10°-20°	165.9	6.6
20°-30°	248.6	9.8
30°-40°	295.4	11.7
40°-50°	302.3	12.0
50°-60°	269.6	10.7
60°-70°	200.0	7.9
70°-80°	109.5	4.3
80°-90°	26.1	1.0
90°-100°	7.6	0.3
100°-110°	34.6	1.4
110°-120°	100.4	4.0
120°-130°	151.5	6.0
130°-140°	162.2	6.4
140°-150°	155.0	6.1
150°-160°	128.3	5.1
160°-170°	84.3	3.3
170°-180°	29.2	1.2
0°-30°	472.7	18.7
0°-40°	768.0	30.4
0°-60°	1340.0	53.0
0°-90°	1675.6	66.3
90°-120°	142.6	5.6
90°-150°	611.3	24.2
90°-180°	853.0	33.7
0°-180°	2528.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	616	616	616	616	616	
5°	611	614	620	613	612	58
15°	586	590	595	588	584	165
25°	536	544	547	542	532	246
35°	467	476	481	474	462	292
45°	384	396	401	392	380	296
55°	294	304	310	303	289	262
65°	193	202	211	202	191	191
75°	96	103	110	103	95	102
85°	15	20	21	22	18	21
90°	1	1	0	1	2	1
95°	3	3	6	10	8	3
105°	9	23	40	26	28	11
115°	79	201	99	49	54	106
125°	307	265	156	73	67	269
135°	336	300	206	122	93	259
145°	350	322	250	176	146	219
155°	352	332	281	228	202	162
165°	340	330	302	269	252	97
175°	317	317	311	298	290	31
180°	309	309	309	309	309	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5
2.5°	611.8	614.4	615.1	614.6	620.5	615.3	615.1	614.4	613.1
5°	611.4	612.3	614.0	612.4	619.9	612.4	613.1	611.5	612.3
7.5°	606.9	607.7	608.7	607.9	614.6	607.9	608.4	606.7	606.7
10°	602.2	603.0	604.7	603.2	610.6	603.2	603.0	601.3	601.3
12.5°	596.8	597.6	599.3	597.8	605.2	597.8	597.6	595.3	595.9
15°	586.1	588.6	590.3	588.0	595.4	588.0	587.8	586.1	584.4
17.5°	573.5	576.0	578.9	576.3	583.1	575.5	576.3	572.6	571.1
20°	563.4	565.8	570.1	566.9	574.3	566.1	567.6	562.5	561.7
22.5°	552.6	554.4	560.7	557.4	564.2	556.6	557.5	551.0	550.2
25°	535.5	537.2	544.0	541.6	547.3	539.9	542.3	533.0	532.2
27.5°	516.1	518.6	524.7	523.2	529.8	521.6	523.9	514.2	512.8
30°	502.6	505.1	511.9	510.4	517.0	508.7	511.1	500.1	499.3
32.5°	487.8	491.6	497.7	497.5	502.8	495.2	496.2	485.9	484.4
35°	467.2	469.7	475.7	475.8	480.7	474.1	474.0	463.8	462.2
37.5°	443.6	446.9	453.2	454.2	459.0	451.7	450.5	441.4	438.7
40°	426.7	430.0	437.7	438.6	442.8	436.2	434.3	425.8	422.5
42.5°	410.5	413.8	421.5	422.4	426.6	420.6	417.5	409.6	405.0
45°	383.7	387.9	395.5	398.1	401.4	395.7	392.2	382.8	379.5
47.5°	358.1	361.4	369.2	373.5	375.0	371.0	366.5	356.5	353.0
50°	339.9	343.2	351.7	355.9	356.7	353.4	348.3	338.9	334.8
52.5°	321.0	324.3	333.5	337.7	338.5	335.2	330.1	320.7	316.6
55°	293.5	296.8	303.6	310.4	310.4	308.7	302.8	292.6	289.3
57.5°	264.1	267.3	275.8	281.7	281.8	279.5	273.4	264.1	260.8
60°	244.6	247.0	255.5	261.5	262.3	260.6	253.9	244.5	241.2
62.5°	223.0	226.1	234.6	241.2	242.7	240.4	232.9	224.2	219.6
65°	193.1	194.8	202.4	209.2	210.8	208.4	201.6	193.1	190.6
67.5°	163.8	164.8	172.0	178.8	180.6	178.0	171.2	165.4	161.4
70°	144.2	145.9	151.8	158.6	161.1	157.8	151.0	145.8	142.5
72.5°	124.6	126.3	132.2	138.4	140.8	138.2	132.1	126.9	123.6
75°	96.1	97.0	102.9	108.8	110.5	108.0	102.9	98.6	95.3
77.5°	69.2	70.0	76.2	79.8	81.3	79.8	75.7	71.6	69.3
80°	52.3	53.1	57.3	61.6	62.4	61.6	58.2	54.8	53.1
82.5°	36.1	36.9	41.8	44.7	44.9	45.4	42.7	39.9	37.6
85°	15.2	16.0	20.2	22.7	21.1	23.6	21.9	19.4	17.7
87.5°	2.2	2.2	4.2	6.1	6.1	6.7	5.6	4.9	3.7
90°	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	1.7
92.5°	0.9	1.5	0.9	1.4	1.4	3.4	2.9	2.2	2.4
95°	2.6	2.6	2.6	6.0	6.0	8.4	10.2	9.3	8.5
97.5°	3.7	3.7	4.9	16.8	13.3	11.3	15.8	16.3	16.3
100°	5.1	5.1	7.7	26.2	18.7	15.4	17.9	20.4	20.4
102.5°	6.5	7.1	11.7	41.0	26.2	18.9	20.6	22.5	23.1
105°	9.4	10.2	23.0	69.9	40.0	25.8	26.4	27.2	28.1
107.5°	13.9	17.3	57.6	99.9	56.6	33.4	35.2	33.7	33.7
110°	18.7	25.4	97.8	118.8	68.9	38.9	40.0	39.1	39.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	29.6	49.5	146.1	134.3	81.1	45.9	44.0	45.9	44.6
115°	79.1	129.0	200.7	156.0	98.6	57.1	49.3	52.7	53.6
117.5°	188.4	225.5	227.5	174.2	116.7	69.6	53.6	57.5	59.2
120°	258.5	264.3	239.8	185.7	127.5	78.5	57.0	59.6	61.2
122.5°	285.0	279.5	250.7	196.6	138.4	88.7	62.4	62.3	63.9
125°	307.0	295.3	265.3	213.0	155.6	104.9	73.1	66.3	67.2
127.5°	317.8	306.2	277.4	226.5	171.8	122.0	86.6	72.1	71.4
130°	324.0	312.3	284.8	236.0	182.0	132.9	96.1	78.2	74.8
132.5°	329.4	318.4	291.6	243.5	192.2	143.1	106.3	85.6	80.9
135°	335.9	325.1	300.2	254.8	205.8	159.2	121.6	99.3	92.7
137.5°	341.6	331.7	308.0	264.9	220.1	173.7	137.1	115.5	108.2
140°	344.4	334.4	312.1	271.1	229.6	183.9	147.9	125.7	119.0
142.5°	347.1	337.8	316.1	277.3	237.7	194.0	158.8	136.6	129.9
145°	349.5	341.2	322.3	285.7	250.0	208.4	176.0	152.9	146.2
147.5°	352.0	343.2	326.2	292.9	260.0	222.6	191.5	169.2	162.7
150°	352.0	344.5	328.2	297.7	266.1	232.1	202.4	180.1	174.3
152.5°	352.7	344.6	330.3	301.9	272.9	240.8	212.6	191.0	185.9
155°	352.0	344.5	332.5	307.2	280.6	252.3	227.9	207.4	202.4
157.5°	349.0	344.1	332.5	310.4	288.4	262.5	241.1	225.0	218.0
160°	346.9	342.8	332.5	312.5	292.5	269.2	250.0	234.6	229.6
162.5°	344.9	340.7	331.8	314.5	296.6	275.3	257.5	242.8	239.1
165°	340.1	336.8	329.9	316.0	301.9	283.6	268.7	255.9	252.5
167.5°	334.8	332.5	326.8	316.9	305.8	291.5	278.6	268.6	264.8
170°	330.8	329.1	324.8	316.9	307.8	296.2	284.0	275.4	272.9
172.5°	325.3	324.3	322.1	315.6	309.2	299.5	290.1	282.2	279.7
175°	317.2	317.2	317.2	314.5	311.2	304.6	297.6	291.6	289.9
177.5°	310.7	311.4	312.1	311.4	311.4	308.0	304.6	301.2	301.9
180°	308.7	308.7	308.7	308.7	308.7	308.7	308.7	308.7	308.7

(END OF REPORT)