

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: P522418

Luminaire Tested: **SQW-F-0U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522418
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-050D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

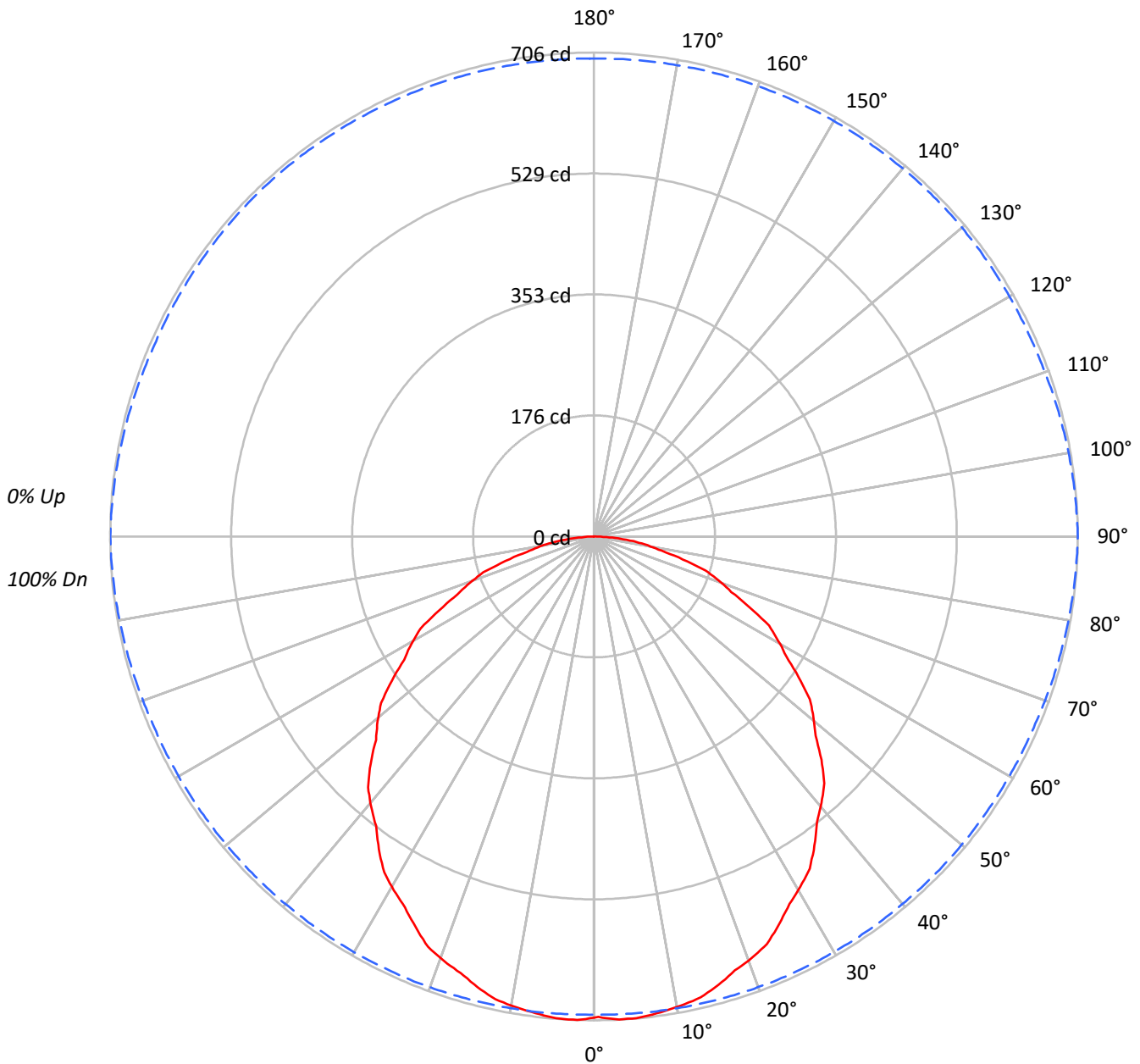
Lumens per Lamp: N/A
Luminaire Lumens: 1955.9 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 21.3
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 90° Lateral - - - Horizontal Cone Through 2.5° 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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84				84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70				70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59				59
4	82	70	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50				50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43				43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38				38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	35	33				33
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	30				30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27				27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11318	11318	11318
5°	11313	11426	11264
10°	11296	11411	11214
15°	11283	11350	11132
20°	11203	11289	10997
25°	11063	11170	10814
30°	10907	11056	10664
35°	10782	10920	10466
40°	10581	10770	10286
45°	10389	10618	10047
50°	10123	10424	9796
55°	9909	10190	9430
60°	9623	9978	9074
65°	9093	9551	8558
70°	8592	9111	7978
75°	7923	8359	7299
80°	6881	7345	6137
85°	5187	5743	4631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	3.4
10°-20°	189.5	9.7
20°-30°	285.1	14.6
30°-40°	340.4	17.4
40°-50°	350.1	17.9
50°-60°	315.0	16.1
60°-70°	238.2	12.2
70°-80°	135.5	6.9
80°-90°	35.8	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	540.9	27.7
0°-40°	881.3	45.1
0°-60°	1546.4	79.1
0°-90°	1955.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1955.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	701	701	701	701	701	
5°	698	698	705	698	695	66
15°	675	676	679	671	666	190
25°	621	627	627	618	607	286
35°	547	553	554	542	531	341
45°	455	461	465	450	440	350
55°	352	359	362	348	335	315
65°	238	245	250	235	224	237
75°	127	131	134	124	117	134
85°	28	32	31	28	25	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
2.5°	697.8	700.1	700.2	699.5	705.8	699.5	701.0	699.3	697.0
5°	698.0	698.0	698.0	697.2	705.0	696.2	698.0	695.0	695.0
7.5°	693.8	694.0	694.8	692.2	700.8	691.0	692.8	689.6	690.4
10°	689.0	690.0	690.0	688.2	696.0	686.2	688.0	684.0	684.0
12.5°	684.2	684.4	685.2	682.6	690.4	679.8	681.6	677.6	676.8
15°	675.0	675.0	676.0	672.2	679.0	669.2	671.0	666.0	666.0
17.5°	661.6	661.4	663.8	658.8	665.8	654.8	658.4	652.2	650.4
20°	652.0	651.0	655.0	649.2	657.0	645.3	648.0	641.0	640.0
22.5°	640.0	639.0	644.6	638.8	645.8	634.1	636.8	627.4	627.2
25°	621.0	620.0	627.0	621.1	627.0	616.2	618.0	608.0	607.0
27.5°	599.4	599.4	607.6	600.8	607.4	596.6	597.4	587.2	587.2
30°	585.0	585.0	594.0	587.1	593.0	582.2	583.0	572.0	572.0
32.5°	569.8	569.8	577.2	571.9	577.8	567.0	567.0	556.0	556.0
35°	547.0	545.0	553.0	548.1	554.0	543.2	542.0	531.0	531.0
37.5°	519.6	518.6	527.4	523.9	528.6	518.0	515.2	504.6	505.6
40°	502.0	501.0	509.0	507.1	511.0	501.2	496.0	487.0	488.0
42.5°	483.6	481.8	489.8	488.7	492.6	482.8	478.4	468.6	468.8
45°	455.0	455.0	461.0	461.1	465.0	454.2	450.0	440.0	440.0
47.5°	424.6	424.8	431.0	431.3	435.0	425.6	421.0	410.2	410.0
50°	403.0	404.0	411.0	412.1	415.0	407.2	401.0	391.0	390.0
52.5°	384.6	383.2	390.2	392.0	394.2	386.4	380.2	370.2	369.2
55°	352.0	353.0	359.0	362.0	362.0	355.2	348.0	337.9	335.0
57.5°	319.6	321.0	325.8	329.6	330.6	323.0	315.6	306.5	302.6
60°	298.0	297.0	305.0	308.0	309.0	302.2	294.0	284.9	281.0
62.5°	274.8	275.4	281.0	285.6	286.6	279.0	271.6	260.1	257.0
65°	238.0	240.9	245.0	248.0	250.0	244.1	235.0	226.0	224.0
67.5°	204.4	206.4	210.4	215.0	216.2	209.6	201.4	193.6	191.4
70°	182.0	184.0	188.0	191.0	193.0	187.1	179.0	171.9	169.0
72.5°	159.6	161.6	164.8	167.8	169.8	163.9	156.6	150.4	148.2
75°	127.0	129.0	131.0	133.0	134.0	130.1	124.0	118.0	117.0
77.5°	94.8	96.8	99.0	101.6	100.6	97.9	92.0	88.0	86.8
80°	74.0	76.0	79.0	80.0	79.0	77.0	72.0	68.0	66.0
82.5°	54.8	56.8	59.8	60.0	58.2	57.8	53.6	50.4	49.2
85°	28.0	30.0	32.0	33.0	31.0	31.0	28.0	25.0	25.0
87.5°	5.6	7.2	9.6	11.9	9.6	10.4	8.0	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)