

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: P522420

Luminaire Tested: **SQW-F-0U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522420
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 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

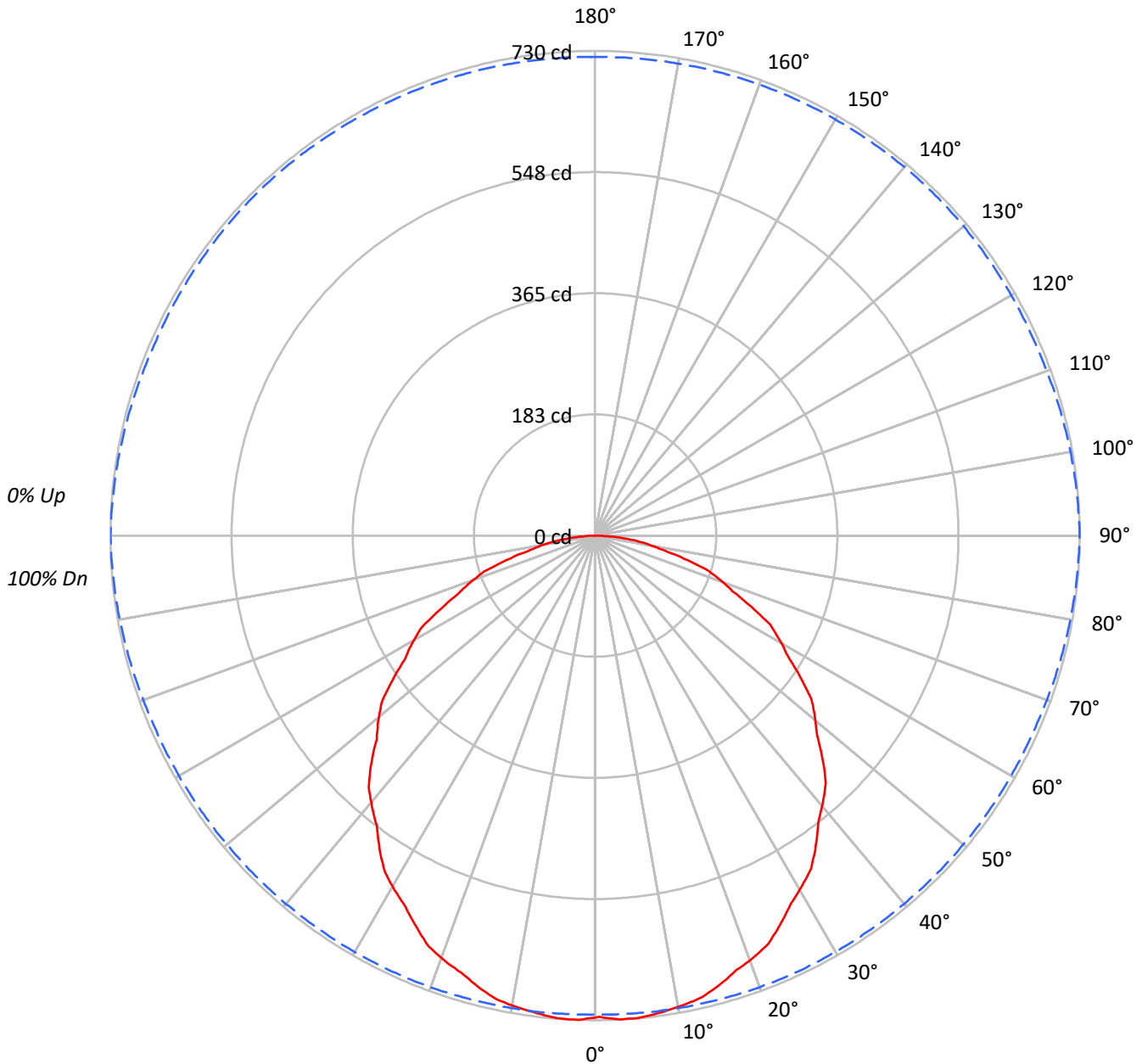
Lumens per Lamp: N/A
Luminaire Lumens: 2023.8 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11711	11711	11711
5°	11705	11823	11655
10°	11688	11808	11603
15°	11674	11744	11519
20°	11591	11680	11378
25°	11448	11558	11190
30°	11285	11440	11035
35°	11156	11298	10829
40°	10947	11143	10642
45°	10750	10985	10396
50°	10474	10786	10135
55°	10252	10545	9757
60°	9956	10324	9390
65°	9410	9883	8856
70°	8889	9427	8257
75°	8197	8652	7555
80°	7122	7596	6351
85°	5372	5947	4798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	3.4
10°-20°	196.1	9.7
20°-30°	295.0	14.6
30°-40°	352.2	17.4
40°-50°	362.3	17.9
50°-60°	325.9	16.1
60°-70°	246.5	12.2
70°-80°	140.2	6.9
80°-90°	37.0	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°	559.7	27.7
0°-40°	911.9	45.1
0°-60°	1600.1	79.1
0°-90°	2023.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2023.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	725	725	725	725	725	
5°	722	722	730	722	719	69
15°	698	700	703	694	689	197
25°	643	649	649	640	628	296
35°	566	572	573	561	549	353
45°	471	477	481	466	455	363
55°	364	372	375	360	347	325
65°	246	254	259	243	232	245
75°	131	136	139	128	121	139
85°	29	33	32	29	26	35
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°	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3
2.5°	722.0	724.5	724.5	723.8	730.3	723.8	725.3	723.6	721.2
5°	722.2	722.2	722.2	721.4	729.5	720.4	722.2	719.1	719.1
7.5°	717.9	718.1	718.9	716.2	725.1	715.0	716.9	713.6	714.4
10°	712.9	713.9	714.0	712.1	720.2	710.0	711.9	707.7	707.7
12.5°	708.0	708.2	709.0	706.3	714.4	703.4	705.3	701.1	700.3
15°	698.4	698.4	699.5	695.5	702.6	692.5	694.3	689.1	689.1
17.5°	684.6	684.4	686.8	681.6	688.9	677.6	681.3	674.8	673.0
20°	674.6	673.6	677.7	671.7	679.8	667.7	670.5	663.2	662.2
22.5°	662.2	661.2	667.0	660.9	668.2	656.1	658.9	649.2	649.0
25°	642.6	641.5	648.8	642.7	648.8	637.6	639.5	629.1	628.1
27.5°	620.2	620.2	628.7	621.6	628.5	617.4	618.1	607.6	607.6
30°	605.3	605.3	614.6	607.5	613.6	602.5	603.2	591.9	591.9
32.5°	589.6	589.6	597.2	591.8	597.9	586.7	586.7	575.3	575.3
35°	566.0	564.0	572.2	567.2	573.2	562.1	560.8	549.4	549.4
37.5°	537.6	536.6	545.7	542.1	547.0	536.0	533.1	522.1	523.2
40°	519.4	518.4	526.7	524.7	528.7	518.6	513.2	503.9	504.9
42.5°	500.4	498.6	506.8	505.7	509.7	499.6	495.0	484.9	485.1
45°	470.8	470.8	477.0	477.1	481.1	470.0	465.6	455.3	455.3
47.5°	439.3	439.5	446.0	446.3	450.1	440.4	435.6	424.4	424.2
50°	417.0	418.0	425.3	426.4	429.4	421.3	414.9	404.6	403.5
52.5°	398.0	396.5	403.7	405.7	407.9	399.8	393.4	383.0	382.0
55°	364.2	365.2	371.5	374.6	374.6	367.5	360.1	349.7	346.6
57.5°	330.7	332.1	337.1	341.1	342.1	334.2	326.6	317.2	313.1
60°	308.3	307.3	315.6	318.7	319.7	312.6	304.2	294.8	290.8
62.5°	284.3	284.9	290.8	295.5	296.6	288.7	281.0	269.2	265.9
65°	246.3	249.3	253.5	256.7	258.7	252.6	243.2	233.8	231.8
67.5°	211.5	213.5	217.7	222.5	223.7	216.8	208.4	200.3	198.0
70°	188.3	190.3	194.5	197.7	199.7	193.6	185.2	177.9	174.9
72.5°	165.1	167.2	170.5	173.7	175.7	169.6	162.0	155.6	153.3
75°	131.4	133.4	135.5	137.6	138.7	134.6	128.3	122.1	121.1
77.5°	98.1	100.1	102.4	105.1	104.1	101.3	95.2	91.0	89.8
80°	76.6	78.6	81.7	82.8	81.7	79.7	74.5	70.3	68.3
82.5°	56.7	58.7	61.9	62.0	60.2	59.8	55.5	52.1	50.9
85°	29.0	31.0	33.1	34.1	32.1	32.1	29.0	25.9	25.9
87.5°	5.8	7.4	9.9	12.4	9.9	10.7	8.3	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)