

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: P522563

Luminaire Tested: **SQW-F-0U-025D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522563
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-025D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

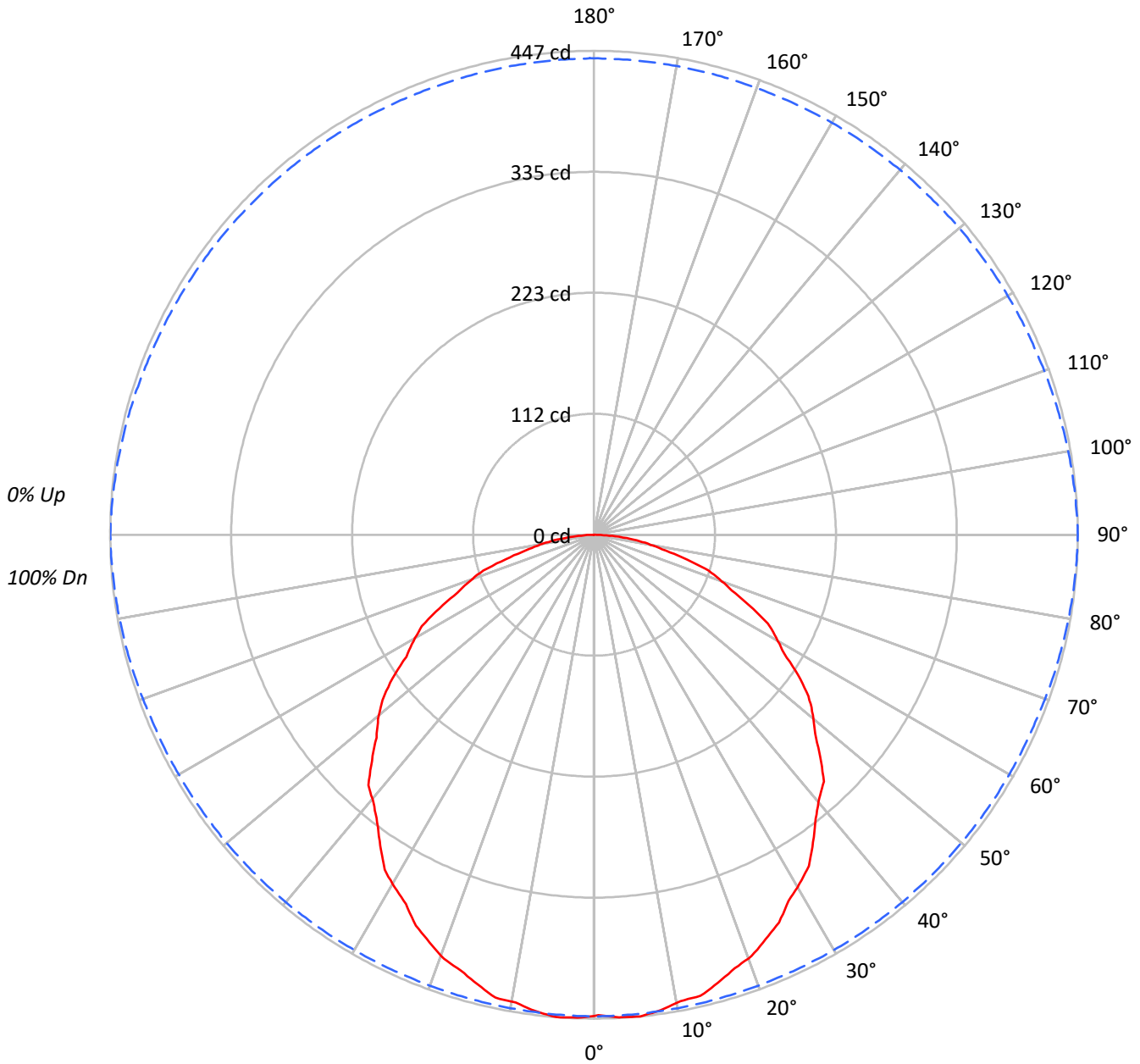
Lumens per Lamp: N/A
Luminaire Lumens: 1233.2 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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 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	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	83	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	47	58	51	46	56	50	46	43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	47	38	33	59	46	38	32	45	38	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	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7161	7161	7161
5°	7204	7237	7125
10°	7158	7174	7047
15°	7117	7168	7004
20°	7115	7132	6930
25°	6975	7062	6852
30°	6896	6969	6714
35°	6828	6865	6556
40°	6742	6742	6433
45°	6542	6677	6272
50°	6458	6581	6111
55°	6269	6435	5855
60°	6051	6242	5641
65°	5849	6036	5360
70°	5514	5792	5051
75°	5078	5265	4529
80°	4472	4649	3831
85°	3279	3631	2538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.9	3.4
10°-20°	119.8	9.7
20°-30°	180.0	14.6
30°-40°	214.8	17.4
40°-50°	220.7	17.9
50°-60°	198.0	16.1
60°-70°	149.9	12.2
70°-80°	85.6	6.9
80°-90°	22.4	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°	341.7	27.7
0°-40°	556.5	45.1
0°-60°	975.2	79.1
0°-90°	1233.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1233.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	444	444	444	444	444	
5°	444	442	446	440	440	42
15°	426	429	429	425	419	121
25°	392	395	396	392	385	181
35°	346	348	348	340	333	217
45°	286	292	292	282	275	222
55°	223	228	229	217	208	199
65°	153	156	158	147	140	151
75°	81	84	84	78	73	86
85°	18	21	20	17	14	22
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°	443.5	443.5	443.5	443.5	443.5	443.5	443.5	443.5	443.5
2.5°	442.7	443.5	445.1	442.8	445.9	442.8	443.5	441.9	439.6
5°	444.5	442.6	442.5	442.6	446.5	441.7	439.6	438.6	439.6
7.5°	439.0	439.4	439.2	438.9	443.1	435.6	438.6	435.7	436.1
10°	436.6	434.7	437.6	435.7	437.6	434.7	434.7	431.7	429.8
12.5°	434.3	433.1	434.5	431.1	436.8	429.4	428.4	427.8	428.2
15°	425.8	428.7	428.8	425.9	428.8	422.1	424.9	420.9	419.0
17.5°	421.1	418.3	419.6	417.3	420.5	415.0	414.7	410.6	411.1
20°	414.1	411.2	414.1	410.3	415.1	406.4	409.2	404.2	403.3
22.5°	404.7	404.1	407.8	404.7	405.6	400.8	400.5	394.8	393.9
25°	391.5	392.5	395.4	390.7	396.4	388.7	391.5	382.7	384.6
27.5°	380.1	380.3	383.7	381.3	382.5	376.5	376.8	369.3	368.0
30°	369.9	370.9	375.8	371.9	373.8	367.1	368.9	359.1	360.1
32.5°	362.9	360.7	364.8	361.0	364.4	357.7	357.9	350.5	349.1
35°	346.4	346.4	348.3	348.3	348.3	341.6	340.5	333.6	332.6
37.5°	329.3	328.5	335.2	330.1	332.4	326.9	324.8	318.1	316.9
40°	319.9	316.0	321.8	319.9	319.9	315.1	313.0	307.1	305.2
42.5°	306.5	305.8	310.1	308.9	311.2	303.4	301.2	294.5	293.4
45°	286.5	287.5	292.4	290.5	292.4	287.6	281.6	276.7	274.7
47.5°	269.6	268.1	272.8	272.6	274.5	267.3	264.5	257.1	256.7
50°	257.1	257.1	261.0	260.1	262.0	256.2	251.2	245.3	243.3
52.5°	244.5	243.0	247.7	247.5	247.9	242.9	237.8	232.7	231.6
55°	222.7	223.7	227.6	227.7	228.6	223.8	216.8	210.9	208.0
57.5°	202.3	201.8	205.5	206.6	206.6	201.8	195.7	190.7	189.6
60°	187.4	188.4	191.3	193.3	193.3	188.5	181.5	176.6	174.7
62.5°	173.3	173.5	177.2	178.4	180.0	174.4	168.2	163.2	161.3
65°	153.1	152.1	156.0	158.0	158.0	153.2	147.2	142.2	140.3
67.5°	130.1	131.5	134.6	135.8	136.8	131.0	125.2	122.0	121.1
70°	116.8	115.8	119.7	121.7	122.7	116.9	111.9	107.9	107.0
72.5°	102.6	102.4	105.6	107.5	107.7	102.0	97.7	94.5	92.0
75°	81.4	82.4	84.4	84.4	84.4	80.5	77.5	74.5	72.6
77.5°	60.6	61.6	63.4	65.1	64.2	60.7	57.7	54.7	53.0
80°	48.1	49.0	50.0	51.0	50.0	48.1	45.1	42.2	41.2
82.5°	35.5	35.7	38.3	38.4	37.5	35.6	33.4	30.4	30.2
85°	17.7	18.6	20.6	20.6	19.6	18.7	16.7	14.7	13.7
87.5°	3.9	4.7	6.3	7.8	6.3	6.3	4.7	3.1	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)