

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: P522409

Luminaire Tested: **SQW-F-0U-025D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522409
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-025D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

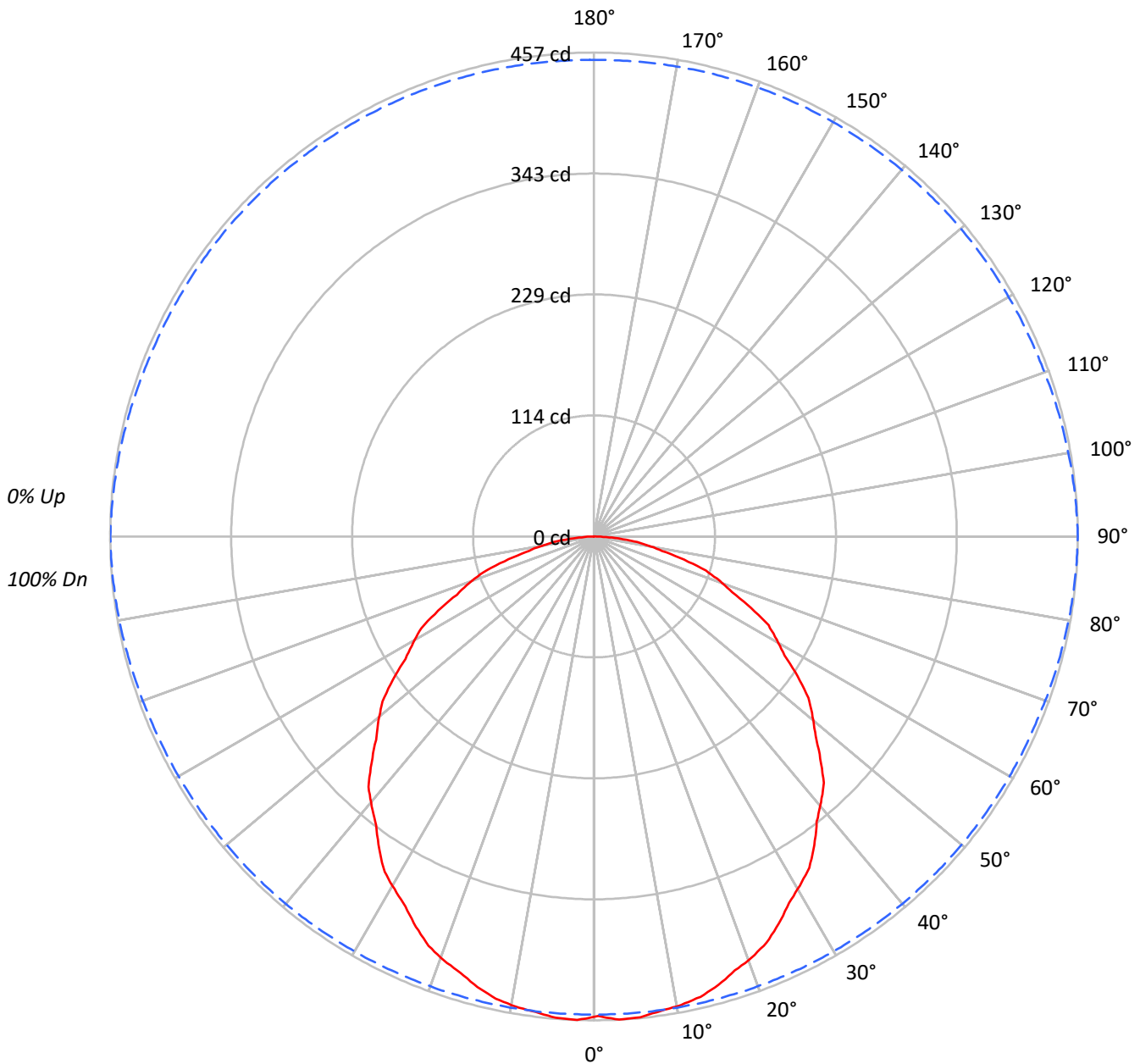
Lumens per Lamp: N/A
Luminaire Lumens: 1263.8 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.2
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	83	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	47	58	51	46	56	50	45	43			43	
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38			38	
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34			34	
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°	7316	7316	7316
5°	7329	7392	7280
10°	7317	7381	7237
15°	7296	7346	7183
20°	7249	7299	7115
25°	7133	7220	6976
30°	7064	7137	6865
35°	6987	7064	6757
40°	6875	6957	6608
45°	6756	6846	6444
50°	6624	6722	6229
55°	6404	6570	6046
60°	6213	6400	5803
65°	5895	6231	5521
70°	5580	5948	5164
75°	5178	5483	4629
80°	4630	4816	4082
85°	3446	3612	2705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	3.4
10°-20°	122.6	9.7
20°-30°	184.3	14.6
30°-40°	220.4	17.4
40°-50°	226.5	17.9
50°-60°	202.4	16.0
60°-70°	153.7	12.2
70°-80°	87.8	6.9
80°-90°	23.2	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°	349.7	27.7
0°-40°	570.1	45.1
0°-60°	999.0	79.0
0°-90°	1263.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1263.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	453	453	453	453	453	
5°	452	452	456	451	449	43
15°	436	438	440	434	430	123
25°	400	405	405	398	392	185
35°	354	359	358	351	343	221
45°	296	300	300	291	282	228
55°	228	231	233	222	215	203
65°	154	159	163	151	144	153
75°	83	86	88	79	74	88
85°	19	22	20	18	15	23
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°	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1
2.5°	451.6	452.3	453.1	453.2	457.0	452.5	452.3	451.5	450.0
5°	452.2	452.2	452.2	451.3	456.1	450.3	451.2	449.2	449.2
7.5°	449.4	448.7	448.8	447.8	452.5	446.6	446.7	445.5	445.3
10°	446.3	446.3	447.3	445.4	450.2	443.5	444.3	442.4	441.4
12.5°	443.2	442.4	443.4	441.5	446.3	439.6	439.7	436.9	436.7
15°	436.5	436.5	437.5	435.6	439.5	433.7	433.6	430.6	429.7
17.5°	428.1	427.9	430.1	427.2	431.1	424.4	424.4	421.8	420.3
20°	421.9	420.9	423.8	421.0	424.8	418.1	418.9	414.1	414.1
22.5°	414.1	413.1	416.8	413.2	417.0	410.3	411.1	405.5	404.7
25°	400.4	401.3	405.3	402.4	405.3	398.6	398.4	392.6	391.6
27.5°	389.1	388.3	393.4	389.3	392.2	385.5	385.5	378.5	377.5
30°	378.9	378.9	384.8	380.0	382.8	376.1	377.0	369.1	368.2
32.5°	369.5	369.5	374.6	371.3	373.4	366.8	366.0	359.0	358.0
35°	354.5	354.5	359.4	356.5	358.4	351.7	350.6	342.8	342.8
37.5°	337.9	337.1	341.8	339.9	341.8	335.3	333.0	326.2	325.2
40°	326.2	326.2	330.1	328.2	330.1	324.4	321.3	314.4	313.5
42.5°	313.7	313.7	318.4	316.5	318.4	311.9	308.8	301.9	301.0
45°	295.9	295.9	299.8	298.9	299.8	294.1	291.0	283.2	282.2
47.5°	277.0	276.2	279.9	280.1	281.6	275.3	271.3	263.8	262.9
50°	263.7	263.7	266.6	267.6	267.6	262.8	258.8	249.0	248.0
52.5°	248.0	248.8	251.8	252.8	253.5	247.2	243.2	235.7	234.8
55°	227.5	226.6	231.4	232.4	233.4	227.7	221.7	215.8	214.8
57.5°	206.4	206.3	210.4	211.5	212.3	207.5	201.6	194.9	193.8
60°	192.4	191.4	196.3	198.2	198.2	193.5	187.5	181.6	179.7
62.5°	176.0	178.1	181.4	183.4	185.0	179.4	172.7	167.5	165.6
65°	154.3	155.3	159.2	161.2	163.1	157.4	151.4	146.4	144.5
67.5°	132.2	133.9	136.9	138.9	140.8	135.3	129.3	125.2	123.4
70°	118.2	119.1	122.1	124.1	126.0	121.2	115.2	110.3	109.4
72.5°	104.1	105.1	108.0	109.2	110.4	105.6	100.4	97.0	95.3
75°	83.0	84.0	85.9	86.9	87.9	83.1	79.1	76.1	74.2
77.5°	63.1	63.1	65.0	65.8	65.8	63.0	59.2	56.4	54.9
80°	49.8	49.8	51.8	51.8	51.8	48.9	45.9	43.9	43.9
82.5°	36.5	37.3	39.3	39.2	38.5	36.4	34.2	32.2	32.2
85°	18.6	19.5	21.5	21.4	19.5	19.5	17.6	16.6	14.6
87.5°	4.7	5.5	7.0	7.8	6.3	6.3	4.7	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)