

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: P511813

Luminaire Tested: **SQW-F-0U-025D-935-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511813
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-025D-935-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

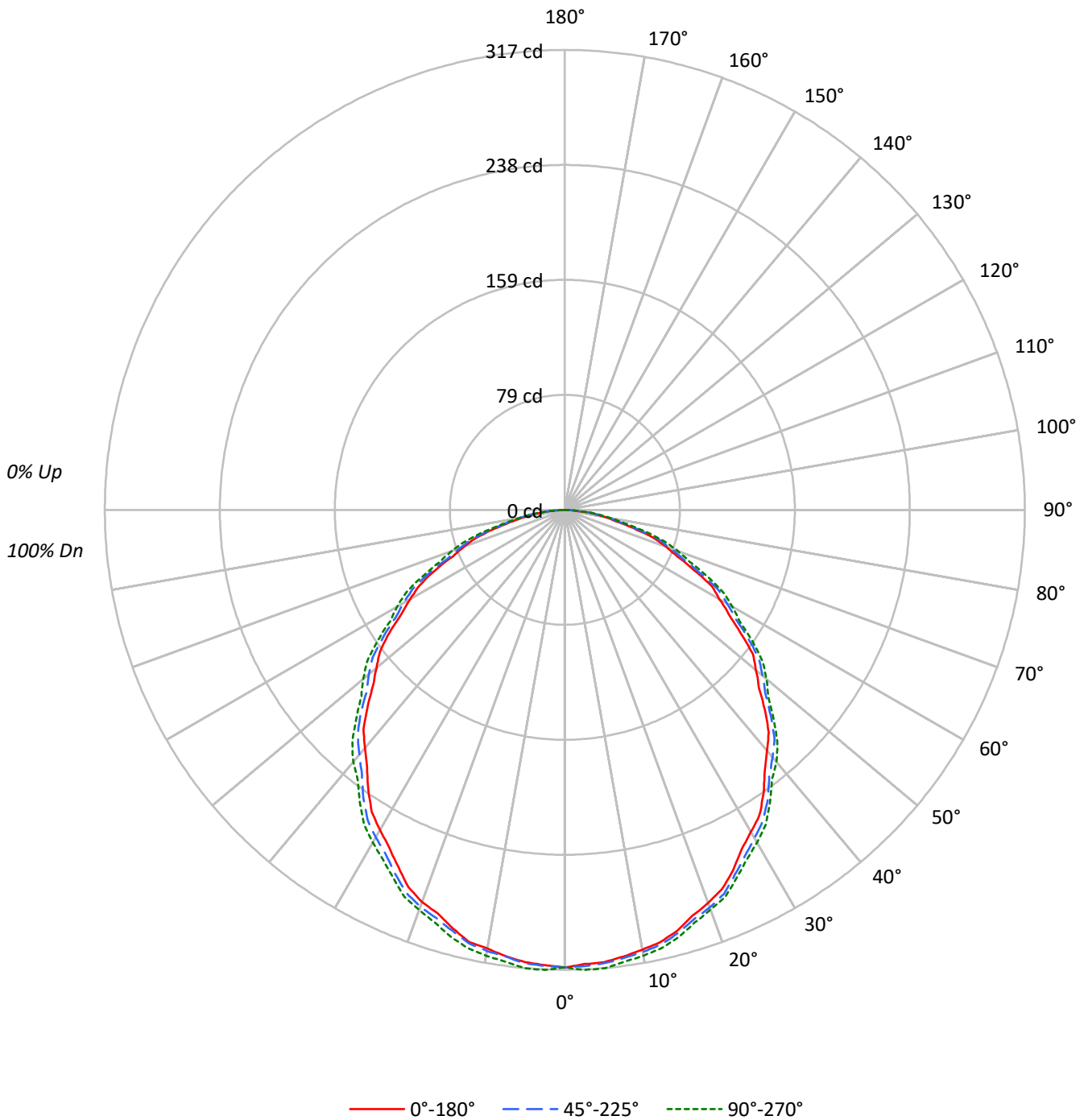
Lumens per Lamp: N/A
Luminaire Lumens: 853.9 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 8.9
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	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	95	98	95	92	94	91	89	90	88	86	84			84	
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70			70	
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59			59	
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51			51	
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44			44	
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39			39	
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34			34	
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30			30	
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27			27	
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25			25	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10185	10185	10185
5°	10143	10279	10143
10°	10093	10230	10067
15°	10036	10180	9979
20°	9911	10086	9883
25°	9766	9976	9677
30°	9561	9874	9497
35°	9410	9709	9307
40°	9135	9565	9029
45°	8896	9280	8782
50°	8641	9108	8515
55°	8310	8878	8310
60°	7950	8609	7950
65°	7542	8245	7542
70°	7006	7799	6930
75°	6101	7049	6213
80°	5021	5802	5170
85°	2816	4076	3446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	3.5
10°-20°	84.9	9.9
20°-30°	127.1	14.9
30°-40°	150.9	17.7
40°-50°	153.3	18.0
50°-60°	136.6	16.0
60°-70°	102.0	11.9
70°-80°	56.1	6.6
80°-90°	13.3	1.6
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°	241.8	28.3
0°-40°	392.6	46.0
0°-60°	682.5	79.9
0°-90°	853.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	853.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	315	315	315	315	315	
5°	313	314	317	314	313	30
15°	300	302	304	300	298	84
25°	274	278	280	277	272	126
35°	239	244	246	242	236	149
45°	195	201	203	199	192	150
55°	148	154	158	153	148	132
65°	99	103	108	103	99	98
75°	49	52	56	52	50	53
85°	8	10	11	11	9	11
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°	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4
2.5°	313.4	314.7	314.7	314.8	317.4	314.8	314.7	314.7	314.1
5°	312.9	312.9	313.7	313.8	317.1	313.8	313.7	312.9	312.9
7.5°	310.5	310.7	311.5	311.4	314.1	310.6	310.7	310.5	310.4
10°	307.8	308.6	309.5	308.7	312.0	307.9	308.7	307.8	307.0
12.5°	305.1	306.0	306.8	306.0	309.3	305.9	306.0	305.1	305.0
15°	300.2	301.1	301.9	301.2	304.5	300.3	300.2	299.4	298.5
17.5°	293.2	294.6	295.8	295.1	298.2	294.3	295.0	293.0	291.6
20°	288.4	289.3	291.8	291.0	293.5	290.2	291.0	287.6	287.6
22.5°	283.0	283.9	286.4	285.6	288.8	284.8	285.6	282.2	281.5
25°	274.1	274.9	277.5	276.7	280.0	275.9	276.6	272.4	271.6
27.5°	263.8	264.8	268.9	268.1	271.6	266.6	267.3	263.1	262.1
30°	256.4	258.0	261.4	260.7	264.8	259.9	260.6	256.3	254.7
32.5°	249.6	251.3	254.0	254.6	257.4	253.1	253.2	248.9	247.3
35°	238.7	240.3	243.7	243.8	246.3	242.1	242.0	237.8	236.1
37.5°	226.2	227.7	231.4	232.5	234.3	230.5	229.6	225.3	223.7
40°	216.7	217.6	222.6	224.4	226.9	221.1	220.1	215.9	214.2
42.5°	208.0	209.5	213.9	214.9	216.7	212.9	211.3	207.1	205.4
45°	194.8	196.5	200.7	202.4	203.2	200.0	199.0	194.8	192.3
47.5°	181.5	183.1	187.4	189.3	190.1	187.6	185.0	181.4	179.0
50°	172.0	173.7	177.9	180.5	181.3	178.8	176.3	172.0	169.5
52.5°	163.3	164.3	168.5	171.7	171.9	170.1	166.8	162.6	160.7
55°	147.6	150.1	154.3	157.7	157.7	156.1	152.6	148.4	147.6
57.5°	133.9	134.9	139.2	142.5	142.7	141.7	138.3	134.1	133.3
60°	123.1	124.8	129.0	132.4	133.3	131.6	128.2	124.0	123.1
62.5°	114.4	114.7	118.9	122.3	123.1	121.5	118.1	114.5	113.0
65°	98.7	99.5	102.9	107.1	107.9	106.3	102.9	99.5	98.7
67.5°	83.7	84.5	87.7	91.8	92.8	91.1	86.9	84.3	83.5
70°	74.2	75.0	77.6	81.0	82.6	81.0	76.7	74.2	73.4
72.5°	64.1	64.9	67.5	70.9	71.9	70.2	66.6	64.8	63.9
75°	48.9	50.6	52.3	55.7	56.5	55.7	52.3	50.6	49.8
77.5°	35.8	36.6	38.3	40.7	41.3	40.7	39.1	36.6	36.6
80°	27.0	27.8	29.5	31.2	31.2	31.2	30.4	27.8	27.8
82.5°	18.9	19.7	20.7	23.1	22.4	23.1	22.3	20.4	19.7
85°	7.6	8.4	10.1	11.8	11.0	11.8	11.0	9.3	9.3
87.5°	0.7	1.3	1.3	3.4	3.4	4.0	2.7	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)