

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: P511819

Luminaire Tested: **SQW-F-0U-050D-935-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511819
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

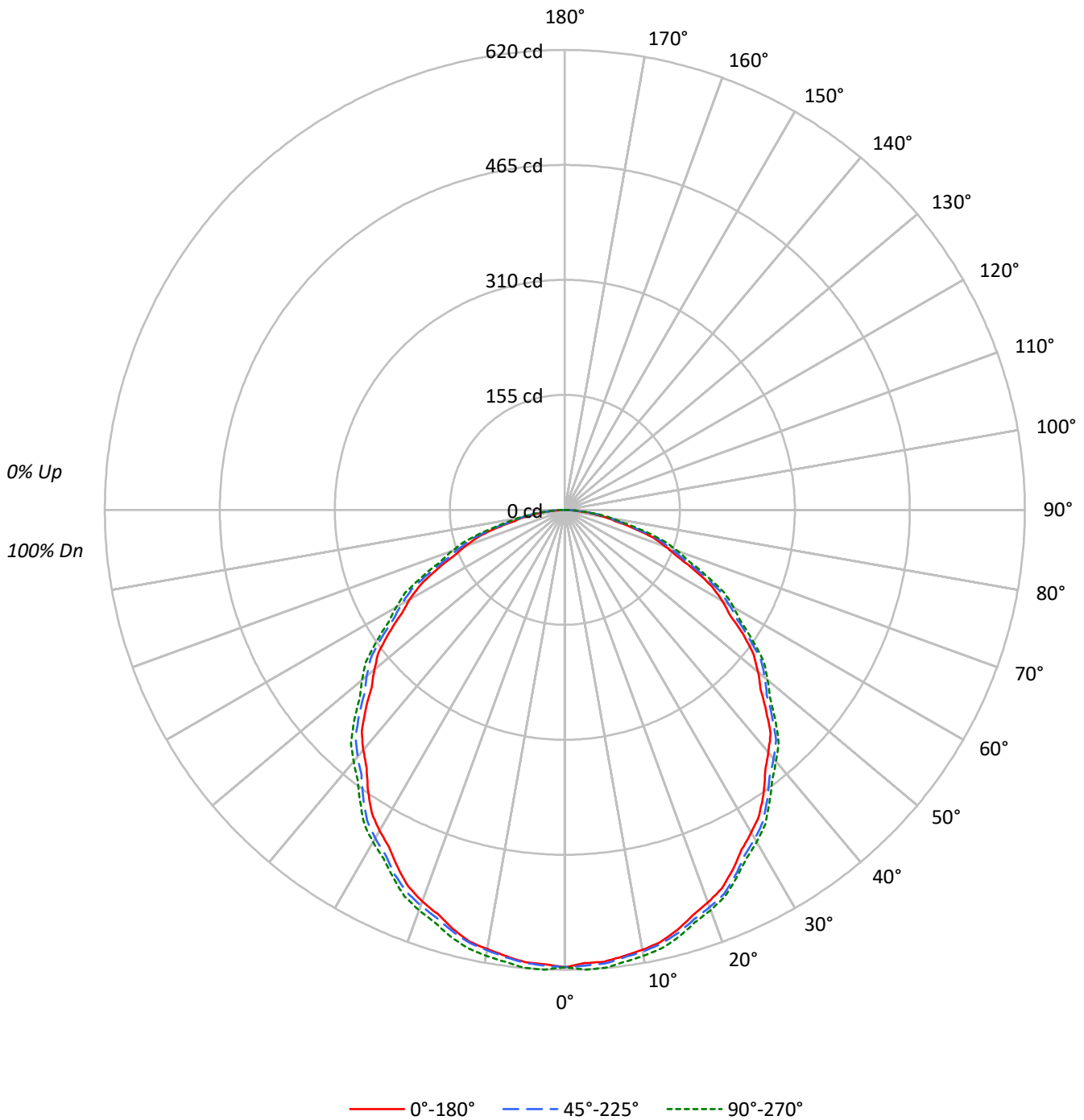
Lumens per Lamp: N/A
Luminaire Lumens: 1675.5 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 17.2
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





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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	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44				44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	41	38				38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34				34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30				30
9	57	43	35	30	55	43	35	30	42	35	29	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°	19908	19908	19908
5°	19819	20094	19848
10°	19746	20022	19717
15°	19594	19905	19537
20°	19361	19735	19302
25°	19080	19500	18962
30°	18741	19278	18618
35°	18418	18950	18220
40°	17987	18666	17810
45°	17523	18331	17331
50°	17076	17920	16819
55°	16524	17475	16287
60°	15797	16940	15578
65°	14755	16107	14564
70°	13615	15210	13454
75°	11990	13787	11890
80°	9726	11604	9875
85°	5632	7818	6558



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	3.5
10°-20°	165.9	9.9
20°-30°	248.6	14.8
30°-40°	295.4	17.6
40°-50°	302.3	18.0
50°-60°	269.6	16.1
60°-70°	200.0	11.9
70°-80°	109.5	6.5
80°-90°	25.9	1.5
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°	472.7	28.2
0°-40°	768.0	45.8
0°-60°	1340.0	80.0
0°-90°	1675.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1675.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	616	616	616	616	616	
5°	611	614	620	613	612	58
15°	586	590	595	588	584	165
25°	536	544	547	542	532	246
35°	467	476	481	474	462	292
45°	384	396	401	392	380	296
55°	294	304	310	303	289	262
65°	193	202	211	202	191	191
75°	96	103	110	103	95	102
85°	15	20	21	22	18	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°	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5
2.5°	611.8	614.4	615.1	614.6	620.5	615.3	615.1	614.4	613.1
5°	611.4	612.3	614.0	612.4	619.9	612.4	613.1	611.5	612.3
7.5°	606.9	607.7	608.7	607.9	614.6	607.9	608.4	606.7	606.7
10°	602.2	603.0	604.7	603.2	610.6	603.2	603.0	601.3	601.3
12.5°	596.8	597.6	599.3	597.8	605.2	597.8	597.6	595.3	595.9
15°	586.1	588.6	590.3	588.0	595.4	588.0	587.8	586.1	584.4
17.5°	573.5	576.0	578.9	576.3	583.1	575.5	576.3	572.6	571.1
20°	563.4	565.8	570.1	566.9	574.3	566.1	567.6	562.5	561.7
22.5°	552.6	554.4	560.7	557.4	564.2	556.6	557.5	551.0	550.2
25°	535.5	537.2	544.0	541.6	547.3	539.9	542.3	533.0	532.2
27.5°	516.1	518.6	524.7	523.2	529.8	521.6	523.9	514.2	512.8
30°	502.6	505.1	511.9	510.4	517.0	508.7	511.1	500.1	499.3
32.5°	487.8	491.6	497.7	497.5	502.8	495.2	496.2	485.9	484.4
35°	467.2	469.7	475.7	475.8	480.7	474.1	474.0	463.8	462.2
37.5°	443.6	446.9	453.2	454.2	459.0	451.7	450.5	441.4	438.7
40°	426.7	430.0	437.7	438.6	442.8	436.2	434.3	425.8	422.5
42.5°	410.5	413.8	421.5	422.4	426.6	420.6	417.5	409.6	405.0
45°	383.7	387.9	395.5	398.1	401.4	395.7	392.2	382.8	379.5
47.5°	358.1	361.4	369.2	373.5	375.0	371.0	366.5	356.5	353.0
50°	339.9	343.2	351.7	355.9	356.7	353.4	348.3	338.9	334.8
52.5°	321.0	324.3	333.5	337.7	338.5	335.2	330.1	320.7	316.6
55°	293.5	296.8	303.6	310.4	310.4	308.7	302.8	292.6	289.3
57.5°	264.1	267.3	275.8	281.7	281.8	279.5	273.4	264.1	260.8
60°	244.6	247.0	255.5	261.5	262.3	260.6	253.9	244.5	241.2
62.5°	223.0	226.1	234.6	241.2	242.7	240.4	232.9	224.2	219.6
65°	193.1	194.8	202.4	209.2	210.8	208.4	201.6	193.1	190.6
67.5°	163.8	164.8	172.0	178.8	180.6	178.0	171.2	165.4	161.4
70°	144.2	145.9	151.8	158.6	161.1	157.8	151.0	145.8	142.5
72.5°	124.6	126.3	132.2	138.4	140.8	138.2	132.1	126.9	123.6
75°	96.1	97.0	102.9	108.8	110.5	108.0	102.9	98.6	95.3
77.5°	69.2	70.0	76.2	79.8	81.3	79.8	75.7	71.6	69.3
80°	52.3	53.1	57.3	61.6	62.4	61.6	58.2	54.8	53.1
82.5°	36.1	36.9	41.8	44.7	44.9	45.4	42.7	39.9	37.6
85°	15.2	16.0	20.2	22.7	21.1	23.6	21.9	19.4	17.7
87.5°	2.0	2.0	4.0	6.1	6.1	6.7	5.4	4.7	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)