

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: P511818

Luminaire Tested: **SQW-F-0U-050D-930-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511818
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-930-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

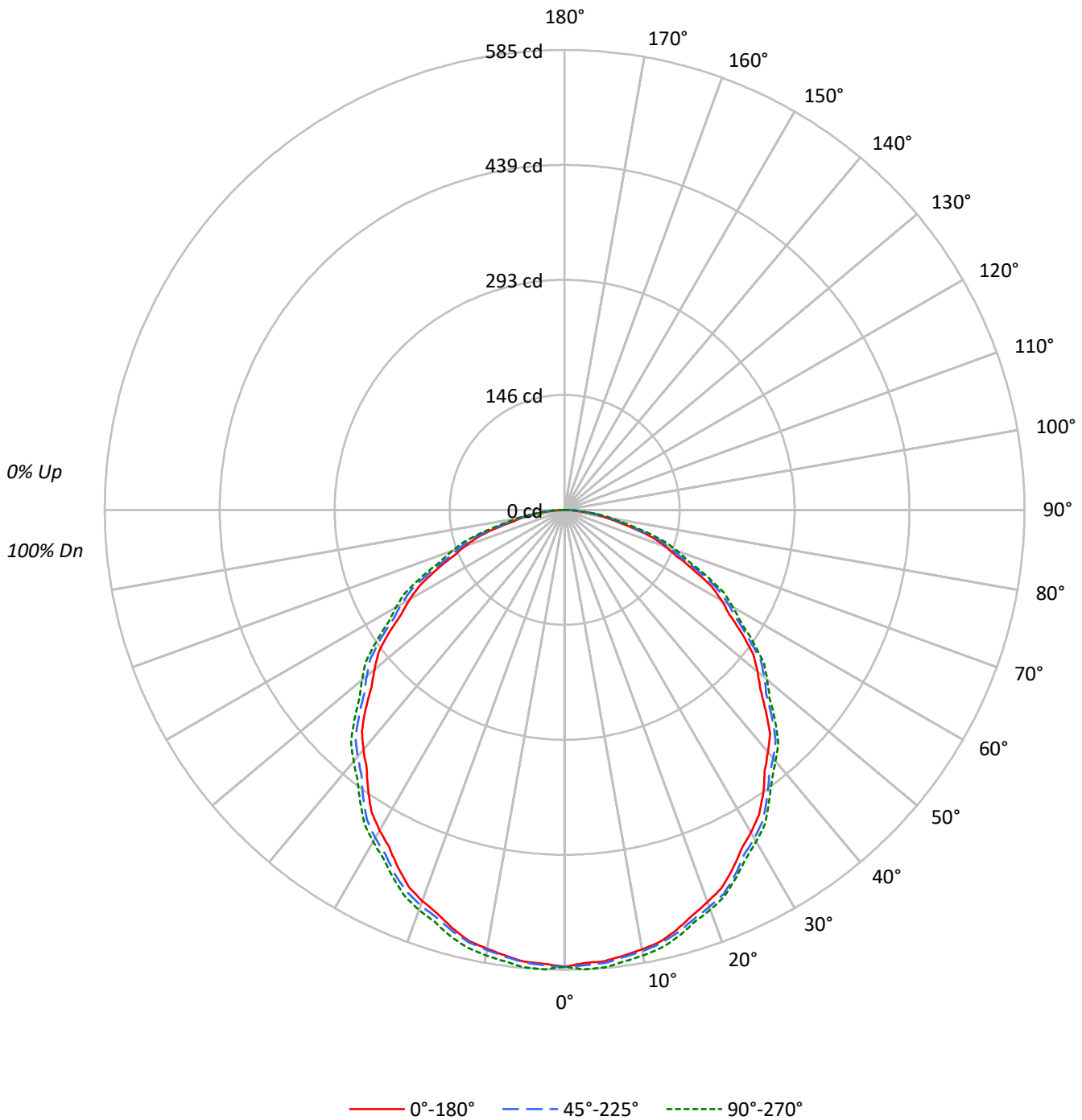
Lumens per Lamp: N/A
Luminaire Lumens: 1579.6 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Direct

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	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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	18768	18768	18768
5°	18684	18943	18710
10°	18615	18874	18589
15°	18474	18765	18420
20°	18251	18608	18196
25°	17990	18385	17876
30°	17671	18174	17551
35°	17365	17866	17176
40°	16959	17595	16790
45°	16523	17285	16340
50°	16096	16895	15860
55°	15578	16473	15353
60°	14893	15972	14686
65°	13914	15190	13731
70°	12840	14342	12689
75°	11304	13001	11204
80°	9168	10935	9317
85°	5298	7373	6187



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	3.5
10°-20°	156.4	9.9
20°-30°	234.3	14.8
30°-40°	278.5	17.6
40°-50°	285.0	18.0
50°-60°	254.2	16.1
60°-70°	188.6	11.9
70°-80°	103.3	6.5
80°-90°	24.4	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°	445.6	28.2
0°-40°	724.1	45.8
0°-60°	1263.3	80.0
0°-90°	1579.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1579.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	581	581	581	581	581	
5°	576	579	584	578	577	55
15°	553	557	561	554	551	156
25°	505	513	516	511	502	232
35°	440	448	453	447	436	275
45°	362	373	378	370	358	279
55°	277	286	293	285	273	247
65°	182	191	199	190	180	181
75°	91	97	104	97	90	96
85°	14	19	20	21	17	20
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°	581.2	581.2	581.2	581.2	581.2	581.2	581.2	581.2	581.2
2.5°	576.8	579.2	579.9	579.4	585.0	580.1	579.9	579.3	578.0
5°	576.4	577.2	578.8	577.4	584.4	577.4	578.0	576.5	577.2
7.5°	572.2	572.9	573.9	573.1	579.5	573.1	573.6	572.0	572.0
10°	567.7	568.5	570.1	568.7	575.6	568.7	568.5	566.9	566.9
12.5°	562.6	563.4	565.0	563.6	570.6	563.6	563.4	561.2	561.8
15°	552.6	554.9	556.6	554.3	561.3	554.3	554.2	552.6	551.0
17.5°	540.7	543.0	545.8	543.4	549.7	542.6	543.4	539.8	538.4
20°	531.1	533.5	537.5	534.5	541.5	533.7	535.1	530.3	529.5
22.5°	520.9	522.7	528.6	525.5	531.9	524.8	525.6	519.5	518.7
25°	504.9	506.4	512.8	510.6	516.0	509.0	511.2	502.5	501.7
27.5°	486.6	488.9	494.7	493.3	499.5	491.7	493.9	484.8	483.4
30°	473.9	476.2	482.6	481.2	487.4	479.6	481.8	471.5	470.7
32.5°	459.9	463.5	469.3	469.1	474.0	466.9	467.8	458.1	456.7
35°	440.5	442.8	448.4	448.5	453.2	447.0	446.8	437.3	435.7
37.5°	418.2	421.3	427.3	428.2	432.7	425.8	424.7	416.1	413.6
40°	402.3	405.4	412.7	413.5	417.4	411.2	409.5	401.5	398.3
42.5°	387.1	390.2	397.4	398.3	402.2	396.6	393.6	386.2	381.8
45°	361.8	365.7	372.9	375.4	378.5	373.0	369.7	360.9	357.8
47.5°	337.6	340.7	348.1	352.1	353.5	349.8	345.5	336.1	332.8
50°	320.4	323.5	331.6	335.5	336.3	333.2	328.4	319.5	315.7
52.5°	302.6	305.7	314.4	318.4	319.2	316.0	311.2	302.4	298.5
55°	276.7	279.8	286.2	292.6	292.6	291.0	285.4	275.8	272.7
57.5°	249.0	252.0	260.0	265.6	265.7	263.5	257.8	249.0	245.8
60°	230.6	232.9	240.9	246.5	247.3	245.7	239.3	230.5	227.4
62.5°	210.2	213.2	221.2	227.4	228.8	226.7	219.6	211.4	207.0
65°	182.1	183.6	190.8	197.2	198.8	196.4	190.0	182.0	179.7
67.5°	154.4	155.3	162.2	168.6	170.3	167.8	161.4	155.9	152.2
70°	136.0	137.5	143.1	149.5	151.9	148.8	142.3	137.5	134.4
72.5°	117.5	119.1	124.7	130.4	132.8	130.3	124.5	119.7	116.6
75°	90.6	91.4	97.0	102.6	104.2	101.8	97.0	93.0	89.8
77.5°	65.2	66.0	71.9	75.2	76.6	75.2	71.4	67.5	65.4
80°	49.3	50.1	54.1	58.1	58.8	58.1	54.9	51.6	50.1
82.5°	34.0	34.8	39.4	42.1	42.3	42.8	40.2	37.6	35.5
85°	14.3	15.1	19.1	21.4	19.9	22.2	20.7	18.3	16.7
87.5°	1.9	1.9	3.8	5.7	5.7	6.3	5.1	4.4	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)