

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: P522497

Luminaire Tested: **SQW-F-025U-050D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522497
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-025U-050D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

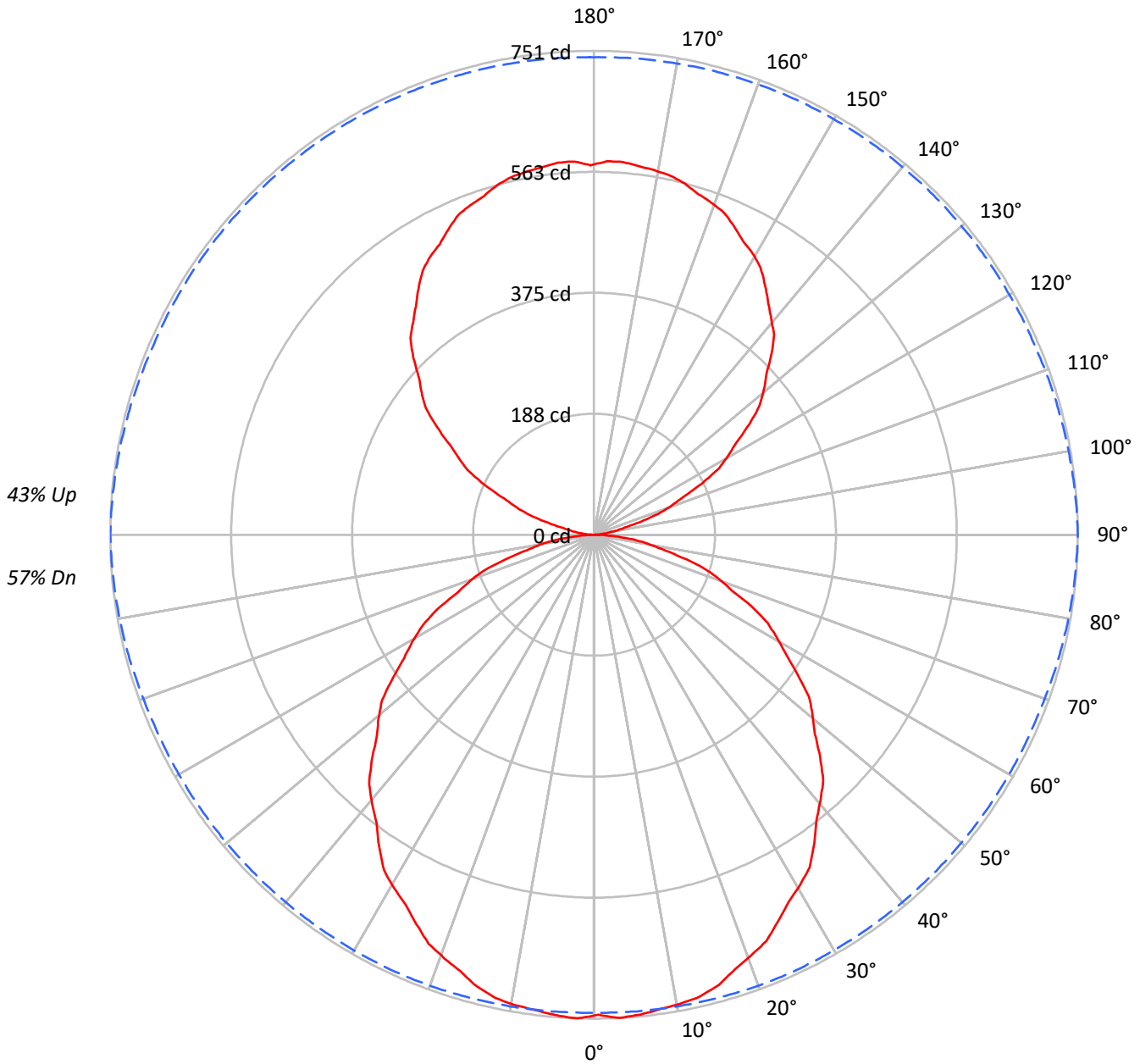
Lumens per Lamp: N/A
Luminaire Lumens: 3666.4 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 35.1
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										
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	50	30	10	0		
RCR	0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57	57	57	47	47	47		
	1	99	95	91	87	92	88	85	82	76	74	71	65	63	61	55	53	52	47	47	47	47	47	47		
	2	90	83	76	71	84	77	71	67	67	62	59	57	54	51	48	46	44	39	39	39	39	39	39		
	3	82	72	65	59	76	68	61	56	59	53	49	50	46	43	42	40	37	33	33	33	33	33	33		
	4	75	64	56	50	70	60	53	47	52	46	42	45	40	37	38	35	32	28	28	28	28	28	28		
	5	69	57	49	43	64	53	46	40	46	41	36	40	35	32	34	30	28	25	25	25	25	25	25		
	6	63	51	43	37	59	48	40	35	42	36	31	36	31	28	31	27	24	21	21	21	21	21	21		
	7	59	46	38	32	54	43	36	31	38	32	28	33	28	25	28	24	22	19	19	19	19	19	19		
	8	54	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17	17	17	17	17	17		
	9	51	38	31	25	47	36	29	24	32	26	22	28	23	20	24	20	17	15	15	15	15	15	15		
	10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14	14	14	14	14	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	12029	12029	12029
5°	12075	12123	11992
10°	12080	12131	11929
15°	11990	12110	11768
20°	11919	11972	11620
25°	11829	11829	11484
30°	11654	11749	11233
35°	11452	11594	10989
40°	11274	11405	10777
45°	11113	11232	10460
50°	10889	11042	10218
55°	10587	10787	9866
60°	10259	10556	9429
65°	9906	10296	8967
70°	9385	9673	8224
75°	8696	8759	7417
80°	7717	7810	6007
85°	6076	5891	4168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	1.9
10°-20°	201.3	5.5
20°-30°	302.9	8.3
30°-40°	361.5	9.9
40°-50°	371.2	10.1
50°-60°	333.6	9.1
60°-70°	252.9	6.9
70°-80°	142.7	3.9
80°-90°	37.0	1.0
90°-100°	14.5	0.4
100°-110°	64.2	1.8
110°-120°	184.5	5.0
120°-130°	281.0	7.7
130°-140°	305.0	8.3
140°-150°	291.7	8.0
150°-160°	240.3	6.6
160°-170°	157.2	4.3
170°-180°	54.4	1.5
0°-30°	574.8	15.7
0°-40°	936.3	25.5
0°-60°	1641.1	44.8
0°-90°	2073.7	56.6
90°-120°	263.1	7.2
90°-150°	1140.8	31.1
90°-180°	1593.0	43.4
0°-180°	3666.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	745	745	745	745	745	
5°	745	744	748	743	740	71
15°	717	720	724	708	704	202
25°	664	666	664	655	645	305
35°	581	590	588	573	558	364
45°	487	493	492	473	458	375
55°	376	383	383	365	350	336
65°	259	266	270	246	235	256
75°	139	141	140	127	119	148
85°	33	36	32	27	22	38
90°	0	0	0	0	0	1
95°	2	3	10	22	22	3
105°	14	39	74	51	54	17
115°	138	364	186	87	98	191
125°	550	478	296	147	125	482
135°	606	548	393	244	194	468
145°	634	590	469	347	296	397
155°	640	614	525	435	396	296
165°	627	611	563	506	481	178
175°	590	592	580	554	541	57
180°	573	573	573	573	573	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0
2.5°	741.7	744.9	744.2	743.5	750.7	744.3	745.0	744.1	740.9
5°	745.0	743.0	743.9	743.0	748.0	742.0	742.9	739.9	739.9
7.5°	741.7	738.5	739.4	738.7	743.1	736.3	735.1	731.3	734.9
10°	736.8	732.8	733.7	733.8	739.9	729.8	728.6	725.6	727.6
12.5°	730.2	727.8	728.0	726.5	734.9	721.7	721.2	719.0	719.4
15°	717.3	720.3	720.4	713.5	724.5	708.4	708.1	708.0	704.0
17.5°	701.9	706.1	709.7	700.9	708.3	694.9	694.6	691.0	686.2
20°	693.7	694.7	699.9	691.8	696.8	685.8	685.5	676.3	676.3
22.5°	682.3	682.5	688.4	679.5	684.5	673.5	674.1	663.2	664.0
25°	664.0	663.0	666.1	660.0	664.0	654.0	654.8	643.5	644.6
27.5°	641.5	642.7	647.4	638.1	644.1	631.9	632.3	622.0	620.6
30°	625.1	627.1	634.3	624.2	630.2	617.2	615.9	605.5	602.5
32.5°	607.9	609.9	617.1	609.4	614.6	602.4	599.5	587.5	585.3
35°	581.0	583.0	590.2	586.2	588.2	576.2	572.8	560.5	557.5
37.5°	553.8	555.8	561.8	558.9	560.7	548.1	543.3	532.4	530.2
40°	534.9	536.9	542.1	540.1	541.1	530.0	523.6	514.3	511.3
42.5°	516.9	518.1	522.4	518.8	521.4	511.2	504.0	494.6	490.0
45°	486.7	486.7	492.9	488.9	491.9	481.8	473.4	463.1	458.1
47.5°	455.6	453.8	460.9	459.5	460.9	450.1	441.7	430.9	427.3
50°	433.5	432.5	439.6	440.6	439.6	429.6	421.2	408.8	406.8
52.5°	409.7	411.1	416.7	417.7	417.5	407.5	398.2	386.7	384.7
55°	376.1	378.1	383.2	384.2	383.2	374.2	364.8	352.5	350.5
57.5°	340.6	345.4	349.8	350.9	351.5	341.9	330.2	320.8	316.6
60°	317.7	321.7	326.9	327.9	326.9	318.9	306.4	297.1	292.0
62.5°	294.7	297.1	302.3	304.9	302.3	294.3	281.8	273.4	271.6
65°	259.3	261.3	266.4	268.5	269.5	258.5	245.9	238.7	234.7
67.5°	220.9	223.3	226.3	229.2	230.4	218.7	208.4	200.7	196.3
70°	198.8	198.8	200.8	202.9	204.9	194.9	185.5	176.2	174.2
72.5°	175.0	175.0	177.9	179.1	179.5	170.3	161.7	153.3	152.9
75°	139.4	139.4	141.4	142.4	140.4	134.4	127.1	119.9	118.9
77.5°	106.0	105.4	107.2	108.0	107.0	100.2	93.0	88.1	86.7
80°	83.0	84.0	85.1	85.0	84.0	78.0	71.7	67.6	64.6
82.5°	61.7	62.7	64.6	64.5	61.9	58.3	52.9	47.9	47.3
85°	32.8	32.8	35.9	34.8	31.8	29.8	26.6	22.5	22.5
87.5°	8.2	9.0	10.7	13.0	9.0	9.8	5.7	3.3	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.4	0.4	0.9	1.3	2.1	8.0	9.0	8.1	7.7
95°	2.1	2.1	3.2	10.1	10.1	16.4	22.4	21.9	21.9
97.5°	4.8	5.3	7.5	30.9	23.1	22.4	32.0	35.3	35.6
100°	6.9	7.5	11.7	50.4	34.2	29.0	34.2	41.7	43.3
102.5°	9.5	10.4	18.6	79.5	48.3	34.7	40.2	45.5	47.1
105°	14.4	16.0	39.0	133.2	73.7	46.0	50.7	53.4	53.9
107.5°	21.7	27.5	106.7	187.4	104.6	60.9	63.7	65.5	66.1
110°	29.4	41.9	185.3	220.0	127.6	72.3	70.5	75.3	74.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	49.4	86.2	272.0	246.9	150.7	85.7	76.9	84.7	85.3
115°	138.3	237.5	363.7	285.0	185.8	109.1	87.0	94.6	97.7
117.5°	347.1	413.0	411.9	320.4	219.6	136.6	99.2	102.8	106.4
120°	466.7	476.6	436.3	344.2	241.4	156.3	109.5	107.9	111.1
122.5°	511.2	503.1	454.7	365.2	263.6	176.8	122.7	113.5	116.2
125°	549.5	533.8	478.5	395.1	296.4	207.1	146.9	125.5	125.0
127.5°	570.8	554.4	501.8	421.0	326.5	238.6	174.3	142.5	137.7
130°	581.0	565.9	518.0	436.9	346.6	259.9	194.4	157.4	150.1
132.5°	593.4	577.0	529.5	453.2	365.8	280.0	214.5	175.3	166.7
135°	605.6	590.4	548.4	474.5	393.0	309.5	243.5	204.8	193.8
137.5°	616.5	602.6	565.7	491.2	417.6	338.5	274.3	236.6	223.2
140°	623.7	608.6	573.0	504.1	432.5	356.8	294.8	257.2	246.7
142.5°	626.3	617.0	580.7	514.9	449.2	374.3	315.3	276.4	266.8
145°	633.9	627.6	590.1	527.9	468.9	400.5	346.6	306.3	295.8
147.5°	638.8	629.4	598.7	541.9	488.1	423.9	375.0	336.3	326.6
150°	639.2	631.9	605.6	550.5	500.9	440.9	392.5	356.0	347.1
152.5°	642.6	633.6	609.0	557.8	510.3	455.3	410.0	376.0	366.3
155°	640.3	634.0	614.1	567.2	524.9	473.8	434.7	404.6	396.2
157.5°	640.3	632.6	614.8	574.5	539.0	494.1	457.8	429.9	423.7
160°	636.0	632.9	615.2	579.7	546.3	505.6	473.1	447.8	439.5
162.5°	634.3	629.1	616.0	583.2	552.7	514.9	486.4	462.4	456.2
165°	626.9	622.2	610.9	584.8	562.8	531.5	505.7	484.3	481.1
167.5°	618.5	614.8	607.4	587.3	569.6	544.0	522.3	505.0	500.7
170°	612.5	606.8	604.0	588.7	573.0	551.6	532.9	517.3	512.6
172.5°	602.3	601.5	599.3	585.4	576.0	558.3	542.8	528.5	525.5
175°	590.1	590.1	591.7	583.1	579.9	565.3	554.3	545.7	541.0
177.5°	576.0	576.4	579.8	579.4	579.8	571.5	568.3	560.2	559.3
180°	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0

(END OF REPORT)