

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: P522492

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

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522492
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-025D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 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

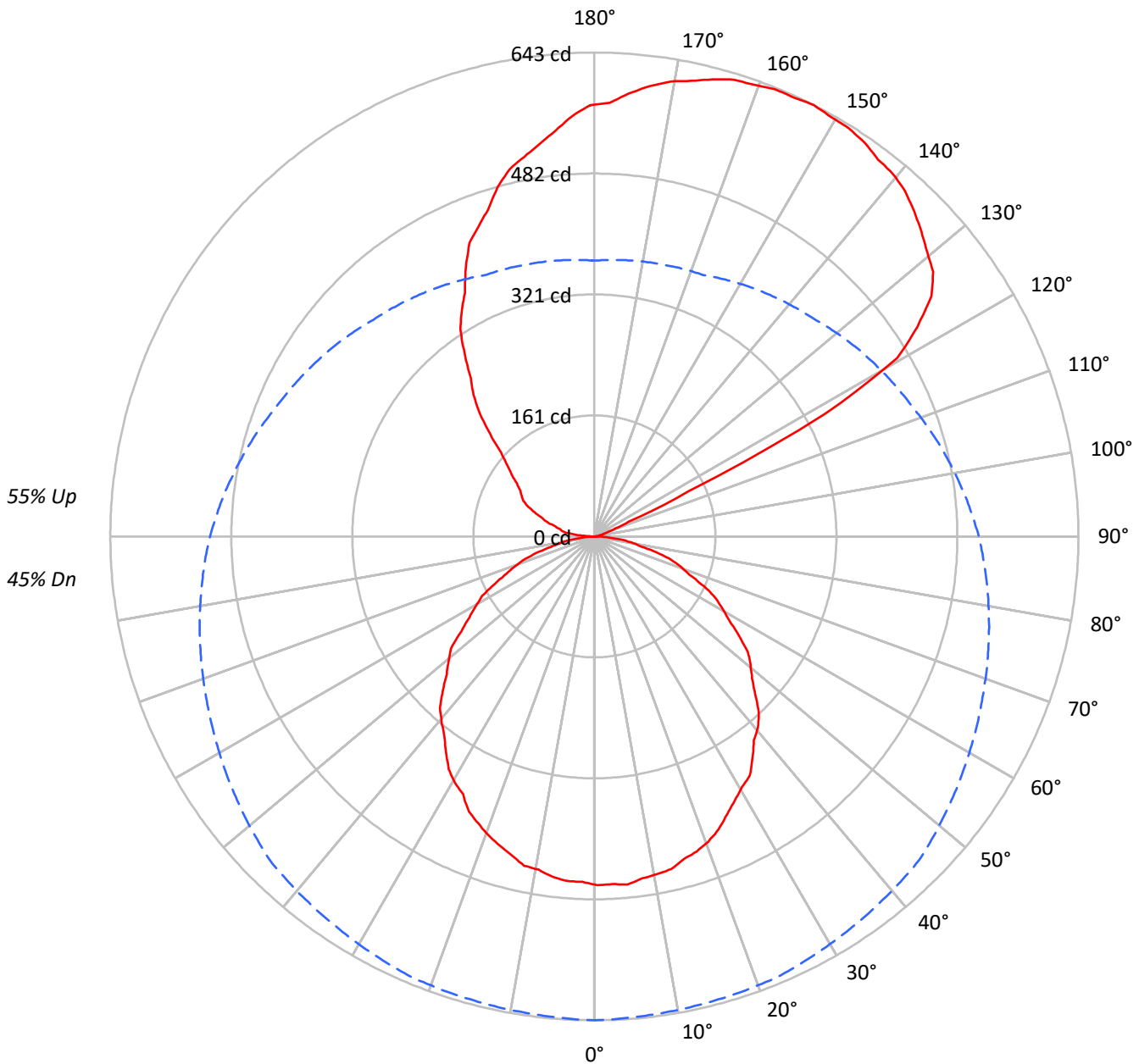
Lumens per Lamp: N/A
Luminaire Lumens: 2880.6 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 28.1
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 0° Lateral - - - Horizontal Cone Through 152.5° 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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45				
1	97	92	88	85	88	85	81	78	70	68	66	57	56	54	45	44	43	37				
2	88	80	74	69	80	74	68	64	61	58	54	50	47	45	40	38	36	31				
3	80	70	63	57	73	65	58	53	54	49	45	44	41	38	35	33	31	26				
4	73	62	54	48	67	57	50	45	48	43	39	39	35	32	31	28	26	22				
5	67	55	47	41	61	51	44	39	43	37	33	35	31	28	28	25	23	19				
6	62	50	41	36	56	46	39	33	38	33	29	32	28	24	25	22	20	17				
7	57	45	37	31	52	41	34	29	35	29	25	29	25	21	23	20	18	15				
8	53	40	33	27	48	37	31	26	32	26	22	26	22	19	21	18	16	13				
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	20	16	14	12				
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7479	7479	7479
5°	7524	7556	7441
10°	7476	7492	7358
15°	7433	7485	7315
20°	7430	7448	7237
25°	7285	7375	7156
30°	7202	7278	7012
35°	7129	7171	6847
40°	7042	7042	6717
45°	6832	6973	6551
50°	6744	6872	6383
55°	6548	6722	6114
60°	6319	6520	5890
65°	6109	6304	5597
70°	5755	6047	5273
75°	5309	5496	4729
80°	4668	4863	3998
85°	3409	3798	2649



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	1.5
10°-20°	125.1	4.3
20°-30°	188.0	6.5
30°-40°	224.3	7.8
40°-50°	230.5	8.0
50°-60°	206.8	7.2
60°-70°	156.6	5.4
70°-80°	89.4	3.1
80°-90°	23.4	0.8
90°-100°	14.5	0.5
100°-110°	64.2	2.2
110°-120°	184.5	6.4
120°-130°	281.0	9.8
130°-140°	305.0	10.6
140°-150°	291.7	10.1
150°-160°	240.3	8.3
160°-170°	157.2	5.5
170°-180°	54.4	1.9
0°-30°	356.9	12.4
0°-40°	581.2	20.2
0°-60°	1018.5	35.4
0°-90°	1287.9	44.7
90°-120°	263.1	9.1
90°-150°	1140.8	39.6
90°-180°	1593.0	55.3
0°-180°	2880.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	463	463	463	463	463	
5°	464	462	466	459	459	44
15°	445	448	448	444	438	126
25°	409	413	414	409	402	189
35°	362	364	364	356	347	226
45°	299	305	305	294	287	232
55°	233	238	239	226	217	208
65°	160	163	165	154	146	157
75°	85	88	88	81	76	90
85°	18	22	20	17	14	22
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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CATALOG NUMBER: SQW-F-025U-025D-93050-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	463.2	463.2	463.2	463.2	463.2	463.2	463.2	463.2	463.2
2.5°	462.4	463.2	464.8	462.4	465.6	462.4	463.2	461.5	459.1
5°	464.2	462.2	462.2	462.2	466.2	461.2	459.1	458.1	459.1
7.5°	458.5	458.9	458.7	458.4	462.8	454.9	458.1	455.0	455.4
10°	456.0	454.0	457.0	455.0	457.0	454.0	454.0	450.8	448.8
12.5°	453.5	452.3	453.7	450.2	456.2	448.4	447.4	446.8	447.2
15°	444.7	447.7	447.8	444.8	447.8	440.8	443.7	439.6	437.6
17.5°	439.8	436.8	438.2	435.8	439.2	433.4	433.0	428.8	429.4
20°	432.4	429.4	432.4	428.4	433.5	424.4	427.3	422.2	421.2
22.5°	422.6	422.0	425.9	422.6	423.6	418.6	418.3	412.3	411.3
25°	408.9	409.9	413.0	408.0	414.0	406.0	408.9	399.7	401.7
27.5°	397.0	397.2	400.7	398.2	399.4	393.2	393.5	385.7	384.3
30°	386.3	387.3	392.5	388.4	390.4	383.4	385.3	375.1	376.1
32.5°	378.9	376.7	381.0	377.0	380.6	373.6	373.8	366.0	364.6
35°	361.7	361.7	363.8	363.8	363.8	356.8	355.6	348.4	347.4
37.5°	343.9	343.1	350.0	344.8	347.2	341.4	339.2	332.2	331.0
40°	334.1	330.1	336.1	334.1	334.1	329.0	326.9	320.7	318.7
42.5°	320.1	319.3	323.8	322.6	325.0	316.8	314.6	307.6	306.4
45°	299.2	300.2	305.4	303.4	305.4	300.4	294.1	288.9	286.9
47.5°	281.6	280.0	284.9	284.7	286.7	279.1	276.3	268.5	268.1
50°	268.5	268.5	272.6	271.6	273.6	267.6	262.3	256.1	254.1
52.5°	255.4	253.8	258.6	258.4	258.8	253.6	248.4	243.0	241.8
55°	232.6	233.6	237.7	237.8	238.8	233.8	226.5	220.2	217.2
57.5°	211.3	210.7	214.6	215.8	215.8	210.8	204.3	199.2	198.0
60°	195.7	196.7	199.8	201.9	201.9	196.9	189.6	184.4	182.4
62.5°	181.0	181.2	185.1	186.3	187.9	182.1	175.6	170.5	168.5
65°	159.9	158.9	162.9	165.0	165.0	160.0	153.7	148.5	146.5
67.5°	135.9	137.3	140.6	141.8	142.8	136.8	130.8	127.5	126.5
70°	121.9	120.9	125.0	127.1	128.1	122.1	116.8	112.7	111.7
72.5°	107.2	107.0	110.3	112.3	112.5	106.5	102.1	98.7	96.1
75°	85.1	86.1	88.1	88.1	88.1	84.1	81.0	77.8	75.8
77.5°	63.3	64.3	66.2	68.0	67.0	63.4	60.3	57.1	55.3
80°	50.2	51.2	52.3	53.3	52.3	50.3	47.1	44.0	43.0
82.5°	37.1	37.3	40.0	40.1	39.1	37.1	34.8	31.8	31.6
85°	18.4	19.4	21.5	21.5	20.5	19.5	17.4	15.3	14.3
87.5°	4.1	4.9	6.6	8.2	6.6	6.6	4.9	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)