

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: P522502

Luminaire Tested: **SQW-F-025U-075D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522502
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-075D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 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

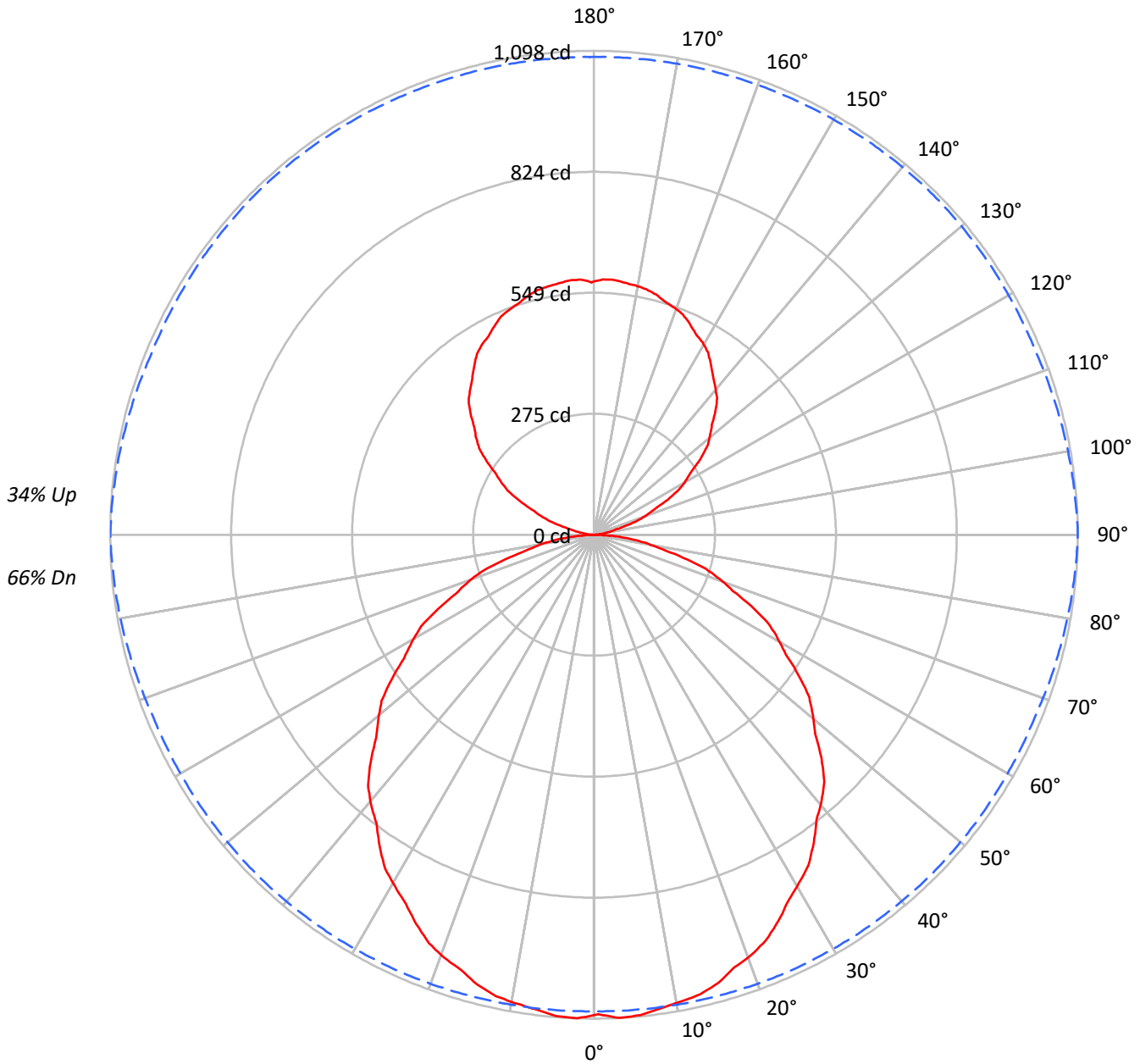
Lumens per Lamp: N/A
Luminaire Lumens: 4629.9 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.3
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				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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66
1	101	97	93	89	95	91	87	84	81	78	75	71	69	67	62	61	59	55
2	92	84	78	72	86	79	74	69	70	66	62	62	59	56	54	52	50	46
3	84	74	66	60	78	70	63	57	62	57	52	55	50	47	48	45	42	38
4	77	65	57	51	72	62	54	49	55	49	44	49	44	40	43	39	36	33
5	70	58	50	43	66	55	47	42	49	43	38	44	39	35	38	35	31	28
6	65	52	44	38	61	49	42	36	44	38	33	39	34	30	35	31	27	25
7	60	47	39	33	56	45	37	32	40	34	29	36	31	27	32	28	24	22
8	56	43	35	29	52	41	33	28	37	30	26	33	28	24	29	25	22	20
9	52	39	31	26	49	37	30	25	34	28	23	30	25	22	27	23	20	18
10	49	36	29	24	46	34	27	23	31	25	21	28	23	19	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	17572	17572	17572
5°	17506	17754	17605
10°	17321	17674	17623
15°	17232	17643	17506
20°	16972	17502	17414
25°	16668	17305	17270
30°	16354	17098	17003
35°	16058	16925	16744
40°	15723	16760	16543
45°	15372	16520	16285
50°	14981	16164	15958
55°	14508	15865	15519
60°	13931	15487	15090
65°	13154	14995	14483
70°	12288	14318	13785
75°	10867	13038	12526
80°	9047	11437	11055
85°	5891	8929	8540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	2.2
10°-20°	293.8	6.3
20°-30°	442.0	9.5
30°-40°	528.0	11.4
40°-50°	543.3	11.7
50°-60°	488.5	10.6
60°-70°	372.1	8.0
70°-80°	211.1	4.6
80°-90°	55.3	1.2
90°-100°	14.5	0.3
100°-110°	64.2	1.4
110°-120°	184.5	4.0
120°-130°	281.0	6.1
130°-140°	305.0	6.6
140°-150°	291.7	6.3
150°-160°	240.3	5.2
160°-170°	157.2	3.4
170°-180°	54.4	1.2
0°-30°	838.7	18.1
0°-40°	1366.8	29.5
0°-60°	2398.6	51.8
0°-90°	3037.2	65.6
90°-120°	263.1	5.7
90°-150°	1140.8	24.6
90°-180°	1593.0	34.4
0°-180°	4629.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1088	1088	1088	1088	1088	
5°	1080	1081	1095	1088	1086	102
15°	1031	1036	1056	1050	1047	290
25°	936	956	971	978	969	431
35°	815	836	859	864	850	509
45°	673	693	724	720	713	519
55°	515	536	564	560	551	460
65°	344	366	392	389	379	342
75°	174	188	209	207	201	186
85°	32	41	48	51	46	41
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	



TEST NUMBER: P522502

CATALOG NUMBER: SQW-F-025U-075D-93050-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3
2.5°	1081.7	1084.9	1086.6	1082.9	1098.1	1085.3	1089.9	1086.6	1084.2
5°	1080.1	1079.1	1081.1	1077.4	1095.4	1081.4	1088.3	1083.2	1086.2
7.5°	1069.6	1067.6	1071.2	1071.8	1085.4	1075.2	1079.2	1077.9	1081.5
10°	1056.5	1058.5	1064.7	1066.0	1078.0	1067.0	1071.9	1072.9	1074.9
12.5°	1050.7	1047.1	1054.0	1057.8	1070.6	1057.2	1066.1	1065.6	1069.2
15°	1030.9	1029.9	1036.0	1039.4	1055.5	1043.4	1050.3	1050.3	1047.3
17.5°	1005.9	1005.9	1014.1	1015.7	1032.5	1023.7	1030.5	1027.4	1026.6
20°	987.8	987.8	1000.1	998.5	1018.6	1010.6	1016.5	1009.4	1013.5
22.5°	967.3	968.1	982.9	980.5	999.7	994.9	1001.8	991.4	996.2
25°	935.6	938.6	956.1	954.4	971.4	966.4	977.6	965.4	969.4
27.5°	901.8	906.0	923.5	923.2	940.1	936.5	949.3	935.2	935.8
30°	877.2	882.2	899.7	901.1	917.1	911.1	926.3	913.0	912.0
32.5°	853.4	857.6	875.1	878.1	894.2	890.6	902.6	889.2	887.4
35°	814.7	819.7	836.2	841.7	858.7	853.7	863.8	851.5	849.5
37.5°	774.7	777.9	795.4	800.2	820.6	816.4	822.9	811.0	811.2
40°	746.0	750.0	767.5	773.1	795.2	790.2	794.2	783.9	784.9
42.5°	717.3	721.3	738.0	746.1	766.5	761.5	764.6	756.0	756.2
45°	673.2	676.2	692.7	703.4	723.5	718.4	720.4	712.2	713.2
47.5°	627.5	629.7	644.8	659.7	676.3	674.1	674.5	664.3	667.3
50°	596.4	599.4	612.8	628.5	643.5	644.5	642.5	632.3	635.3
52.5°	564.4	566.6	582.5	595.7	611.6	613.4	609.7	600.3	602.5
55°	515.4	517.4	535.9	549.6	563.6	564.6	560.5	553.3	551.3
57.5°	465.0	468.0	485.3	500.2	514.0	512.2	510.1	501.7	500.1
60°	431.4	434.4	450.9	466.5	479.6	478.6	476.5	467.3	467.3
62.5°	397.0	400.8	418.1	432.1	445.1	444.9	442.1	435.3	433.7
65°	344.3	348.3	365.8	378.4	392.5	392.5	389.4	381.2	379.1
67.5°	293.9	297.9	312.3	325.4	339.4	338.2	335.3	330.1	327.3
70°	260.3	264.3	274.6	289.3	303.3	301.3	299.2	294.0	292.0
72.5°	224.2	229.0	239.4	252.4	265.6	265.2	263.1	260.4	256.0
75°	174.2	177.2	188.5	200.0	209.0	210.0	207.0	205.9	200.8
77.5°	126.9	130.7	140.0	150.0	156.6	159.8	158.0	155.5	151.7
80°	97.3	100.4	109.6	118.0	123.0	127.0	126.0	121.9	118.9
82.5°	69.5	72.5	80.1	87.6	91.8	95.8	94.9	92.3	87.7
85°	31.8	33.8	41.0	46.2	48.2	53.2	51.2	49.1	46.1
87.5°	4.9	5.7	10.7	15.6	14.8	19.6	17.2	13.9	10.7
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)