

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: P522307

Luminaire Tested: **SQW-F-025U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522307
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-025U-075D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

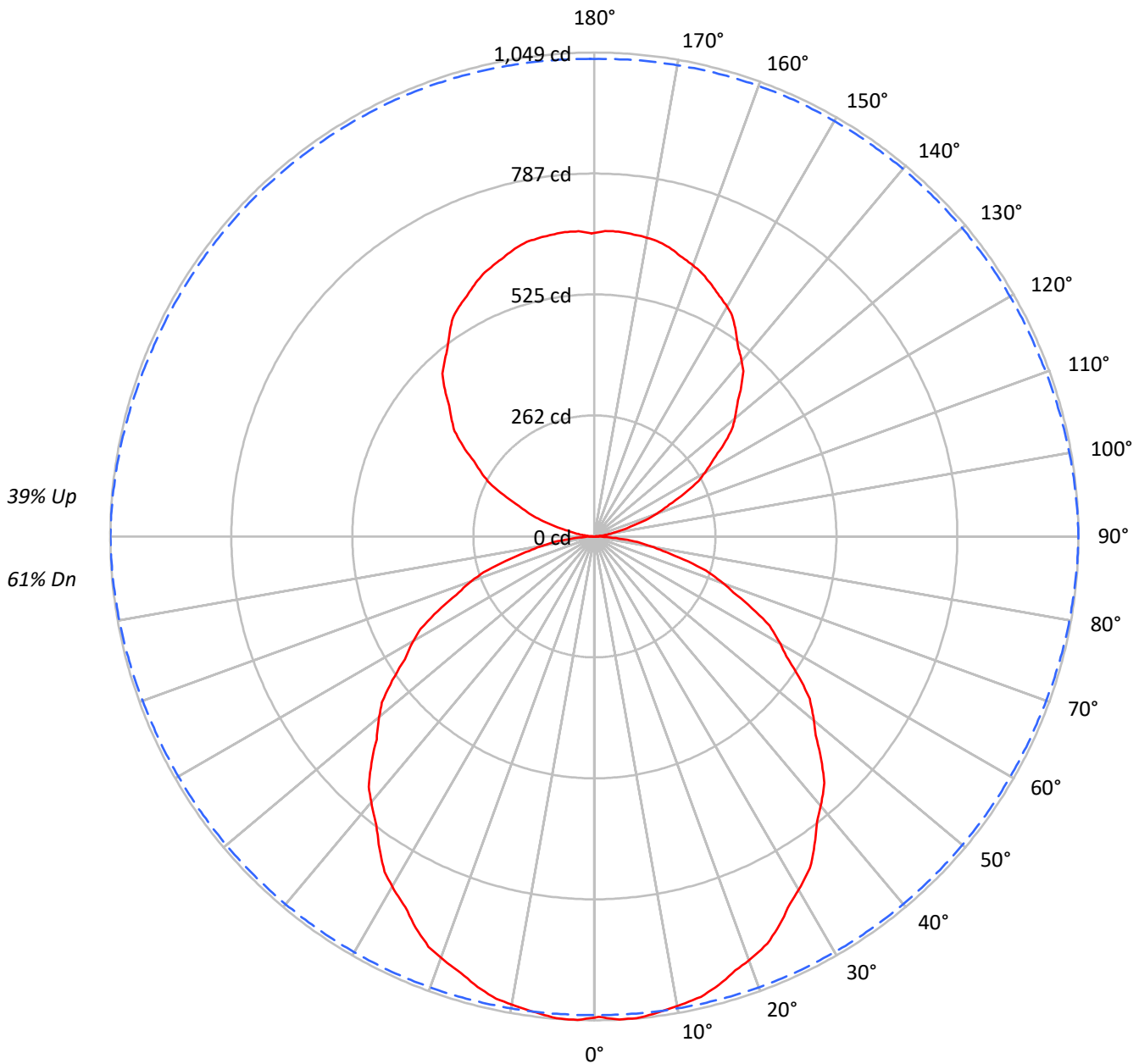
Lumens per Lamp: N/A
Luminaire Lumens: 4742.4 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 46
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	61
1	100	96	92	88	94	90	86	83	78	76	73	68	66	64	59	57	56	51
2	91	83	77	72	85	78	73	68	69	64	61	60	56	54	51	49	47	43
3	83	73	66	60	77	69	62	57	60	55	51	53	49	45	45	42	40	36
4	76	65	57	50	71	61	54	48	54	48	43	47	42	39	40	37	34	31
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	36	33	30	27
6	64	52	43	37	60	49	41	36	43	37	32	38	33	29	33	29	26	23
7	59	47	38	33	55	44	37	31	39	33	28	34	29	26	30	26	23	21
8	55	42	34	29	51	40	33	28	36	30	25	31	27	23	28	24	21	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	19	16
10	48	36	28	23	45	34	27	22	30	24	20	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16819	16819	16819
5°	16835	16982	16752
10°	16811	16928	16644
15°	16749	16868	16493
20°	16639	16761	16289
25°	16436	16618	16037
30°	16231	16421	15776
35°	15997	16198	15514
40°	15732	15968	15152
45°	15438	15742	14858
50°	15091	15448	14503
55°	14705	15136	14075
60°	14237	14832	13546
65°	13616	14357	12879
70°	12883	13700	11920
75°	11753	12452	10736
80°	10228	11074	9186
85°	7744	8670	6410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	2.1
10°-20°	281.6	5.9
20°-30°	423.5	8.9
30°-40°	505.9	10.7
40°-50°	520.1	11.0
50°-60°	468.0	9.9
60°-70°	356.2	7.5
70°-80°	201.8	4.3
80°-90°	53.1	1.1
90°-100°	17.3	0.4
100°-110°	74.8	1.6
110°-120°	213.3	4.5
120°-130°	324.3	6.8
130°-140°	350.8	7.4
140°-150°	335.2	7.1
150°-160°	275.6	5.8
160°-170°	180.1	3.8
170°-180°	62.3	1.3
0°-30°	803.6	16.9
0°-40°	1309.5	27.6
0°-60°	2297.6	48.4
0°-90°	2908.8	61.3
90°-120°	305.3	6.4
90°-150°	1315.6	27.7
90°-180°	1834.0	38.7
0°-180°	4742.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1042	1042	1042	1042	1042	
5°	1039	1039	1048	1036	1034	99
15°	1002	1004	1009	996	987	283
25°	923	932	933	916	900	425
35°	812	823	822	804	787	507
45°	676	685	689	669	651	521
55°	522	533	538	517	500	467
65°	356	367	376	353	337	353
75°	188	194	200	183	172	200
85°	42	47	47	42	35	50
90°	0	0	0	0	0	1
95°	3	4	12	28	26	4
105°	17	44	86	59	64	20
115°	157	418	216	103	116	216
125°	627	552	345	170	146	551
135°	694	628	454	282	223	535
145°	723	677	541	400	341	453
155°	731	699	604	502	455	338
165°	714	698	647	580	553	203
175°	673	674	663	639	621	65
180°	657	657	657	657	657	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7
2.5°	1037.6	1040.8	1040.9	1041.1	1049.0	1040.3	1040.1	1040.0	1035.2
5°	1038.7	1038.7	1038.7	1036.9	1047.8	1035.9	1035.6	1033.6	1033.6
7.5°	1032.8	1031.0	1032.1	1029.9	1039.9	1026.9	1027.7	1025.4	1025.0
10°	1025.4	1024.4	1026.4	1022.6	1032.5	1019.6	1020.3	1017.2	1015.2
12.5°	1017.3	1016.3	1019.1	1013.6	1024.4	1011.5	1011.4	1007.5	1007.1
15°	1002.0	1002.0	1004.0	1000.2	1009.1	996.2	995.9	991.7	986.7
17.5°	983.9	981.7	986.5	980.2	989.4	974.8	975.9	969.9	964.3
20°	968.4	965.4	973.5	965.6	975.5	958.6	961.3	952.0	948.0
22.5°	950.5	948.3	957.2	950.1	959.2	943.1	944.2	932.5	929.3
25°	922.6	921.6	931.7	923.8	932.8	915.8	916.5	904.2	900.2
27.5°	891.8	891.0	902.2	894.2	902.0	886.3	886.7	873.2	868.2
30°	870.6	870.6	881.8	873.9	880.8	865.9	865.5	851.2	846.2
32.5°	847.8	847.0	858.2	851.8	858.0	842.3	841.1	827.6	822.6
35°	811.6	811.6	822.8	815.8	821.8	807.8	804.5	791.1	787.1
37.5°	773.3	772.3	783.5	779.1	784.5	769.8	765.1	750.9	749.9
40°	746.4	745.4	756.6	754.6	757.6	743.7	738.3	723.9	718.9
42.5°	718.7	719.3	728.9	726.9	730.7	716.8	711.4	696.3	693.7
45°	676.1	675.2	685.3	684.4	689.4	675.4	669.0	652.7	650.7
47.5°	631.7	632.1	641.1	642.2	645.2	632.4	624.8	608.7	606.7
50°	600.8	602.8	611.0	612.1	615.0	603.1	594.7	579.4	577.4
52.5°	570.7	571.8	580.0	583.5	584.1	573.7	563.7	549.2	547.2
55°	522.4	525.4	532.6	536.7	537.7	528.7	517.3	503.0	500.0
57.5°	473.5	475.5	485.3	490.0	490.2	480.8	469.4	456.1	451.3
60°	440.9	442.9	451.1	458.3	459.3	448.3	436.8	423.5	419.5
62.5°	407.5	409.5	417.7	424.9	425.9	415.7	403.4	390.1	387.0
65°	356.4	358.4	366.6	374.8	375.8	365.8	353.3	340.0	337.1
67.5°	306.3	308.3	316.3	323.1	325.2	314.5	303.0	290.7	286.8
70°	272.9	274.9	282.1	287.2	290.2	280.3	268.8	256.5	252.5
72.5°	237.9	239.1	246.2	252.1	252.7	244.4	233.8	224.0	220.8
75°	188.4	190.4	194.5	200.6	199.6	191.6	183.3	176.1	172.1
77.5°	140.9	143.1	147.0	151.1	151.7	144.4	137.3	130.1	127.3
80°	110.0	113.0	116.1	120.1	119.1	114.2	107.9	100.8	98.8
82.5°	81.5	83.7	87.6	90.8	88.2	84.8	80.2	73.1	71.1
85°	41.8	42.7	46.8	49.8	46.8	45.8	41.8	36.6	34.6
87.5°	9.0	10.6	13.8	17.8	14.7	15.5	12.2	8.1	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.9	0.9	0.9	1.8	2.7	9.7	10.7	9.4	9.4
95°	2.8	2.8	3.9	12.3	11.7	19.9	27.9	26.2	26.2
97.5°	5.7	6.2	8.9	36.3	27.3	26.6	37.7	42.0	42.7
100°	8.4	8.9	13.4	59.3	40.7	34.7	41.3	49.1	50.8
102.5°	11.5	12.5	21.4	93.2	57.2	40.8	47.1	54.0	56.1
105°	17.3	18.9	44.1	156.3	86.5	53.2	59.1	62.0	63.6
107.5°	25.7	32.3	118.7	219.6	122.7	70.3	76.5	76.1	77.5
110°	34.6	48.2	205.3	254.2	149.5	83.5	83.7	88.1	86.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	57.3	95.9	306.1	287.5	176.3	99.4	90.4	100.2	100.7
115°	157.3	270.2	418.4	334.2	215.9	127.5	102.6	112.2	116.0
117.5°	390.0	470.1	475.8	375.7	255.4	158.9	116.7	120.9	126.0
120°	528.8	545.2	502.6	401.2	281.7	181.3	128.3	126.8	132.2
122.5°	583.3	577.4	524.5	424.9	307.6	205.0	142.6	133.9	137.6
125°	627.0	611.7	551.7	457.7	345.3	240.6	169.6	145.6	145.6
127.5°	653.1	635.3	576.7	486.8	379.3	276.5	202.0	164.7	159.5
130°	668.3	649.2	591.9	506.9	401.6	299.6	224.8	181.1	172.9
132.5°	679.9	662.5	606.1	522.7	423.5	322.4	247.6	201.5	188.1
135°	693.9	679.2	628.1	546.8	454.1	356.4	281.7	236.8	223.1
137.5°	703.0	691.5	647.9	566.6	482.4	390.2	316.2	271.1	258.7
140°	707.9	698.6	657.7	578.4	499.8	412.0	340.3	294.3	282.8
142.5°	712.8	705.3	664.8	591.4	516.8	433.8	363.9	317.9	305.6
145°	723.0	714.2	676.7	607.1	541.1	464.2	400.5	352.3	341.4
147.5°	730.1	719.6	686.4	624.0	564.1	491.8	434.1	387.6	376.8
150°	731.9	721.0	691.7	633.0	577.9	508.6	454.6	410.3	400.0
152.5°	730.5	722.2	695.7	640.7	589.5	525.0	473.4	432.2	422.7
155°	731.3	723.7	699.0	651.0	604.1	548.0	501.5	465.0	455.2
157.5°	728.0	723.0	701.2	659.0	617.6	568.4	527.3	496.6	486.7
160°	728.0	720.3	701.2	663.6	627.0	581.7	543.3	515.8	507.6
162.5°	723.1	716.3	700.8	666.8	635.9	594.2	558.5	532.8	526.8
165°	714.0	708.6	698.4	671.1	647.1	611.1	580.1	557.2	553.4
167.5°	707.0	699.5	693.9	670.9	654.7	623.3	598.4	579.4	577.2
170°	699.0	694.1	689.5	669.7	658.2	632.1	611.4	592.4	590.2
172.5°	688.7	686.0	683.7	668.9	660.5	639.5	622.5	605.3	601.3
175°	672.7	674.9	674.4	667.1	662.7	649.1	638.7	626.3	621.4
177.5°	662.9	662.1	664.3	662.9	662.5	654.2	651.3	642.9	645.5
180°	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1

(END OF REPORT)