

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: P522309

Luminaire Tested: **SQW-F-025U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522309
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

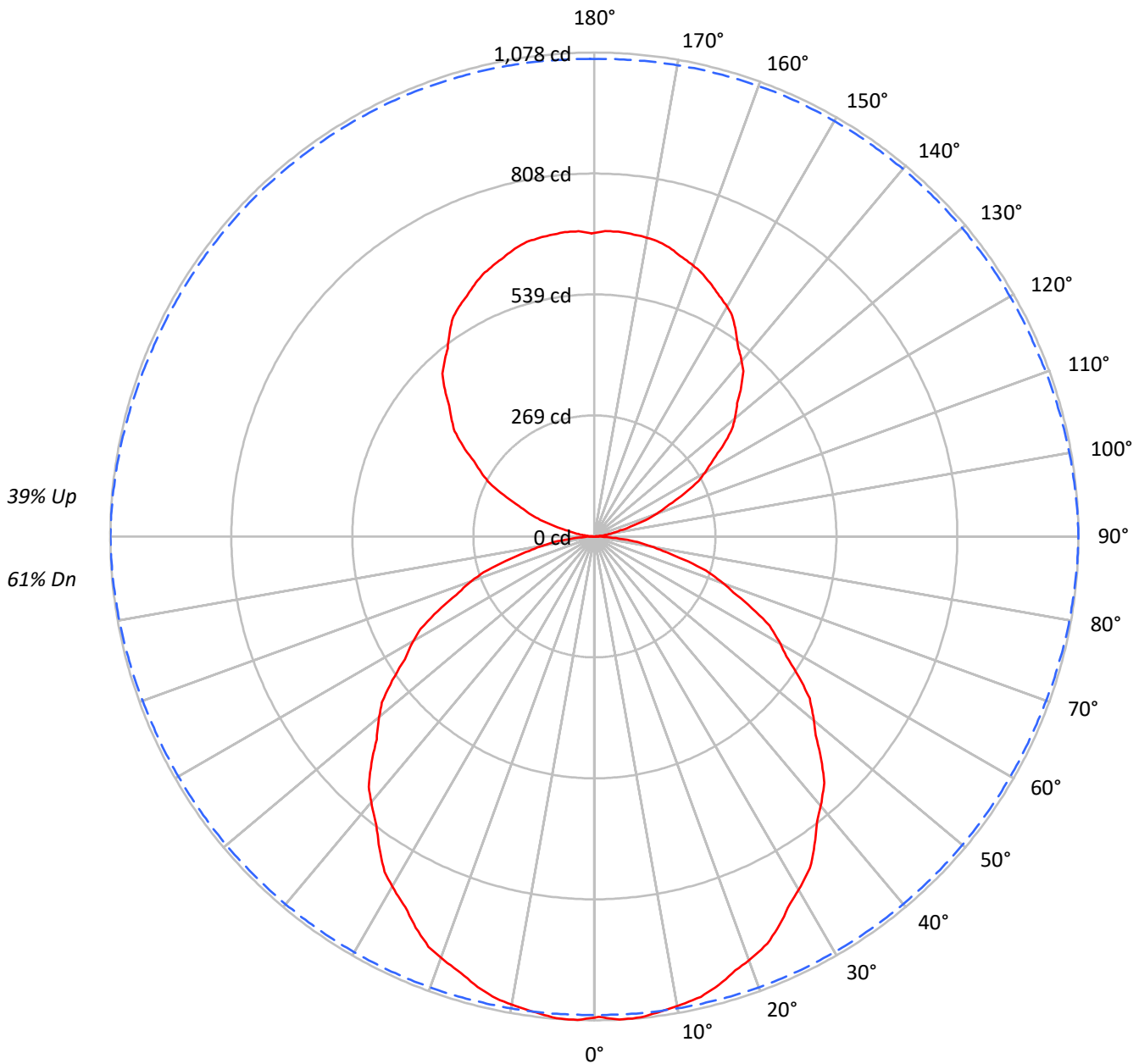
Lumens per Lamp: N/A
Luminaire Lumens: 4872.2 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.9
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°	17279	17279	17279
5°	17295	17447	17211
10°	17272	17392	17100
15°	17207	17331	16944
20°	17094	17220	16735
25°	16885	17072	16475
30°	16677	16871	16209
35°	16435	16642	15940
40°	16162	16404	15567
45°	15863	16173	15264
50°	15503	15872	14900
55°	15108	15550	14460
60°	14628	15235	13918
65°	13990	14747	13230
70°	13237	14077	12246
75°	12071	12788	11029
80°	10507	11381	9437
85°	7947	8911	6595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	2.1
10°-20°	289.3	5.9
20°-30°	435.1	8.9
30°-40°	519.7	10.7
40°-50°	534.3	11.0
50°-60°	480.9	9.9
60°-70°	365.9	7.5
70°-80°	207.4	4.3
80°-90°	54.5	1.1
90°-100°	17.7	0.4
100°-110°	76.8	1.6
110°-120°	219.1	4.5
120°-130°	333.2	6.8
130°-140°	360.4	7.4
140°-150°	344.3	7.1
150°-160°	283.2	5.8
160°-170°	185.0	3.8
170°-180°	64.0	1.3
0°-30°	825.6	16.9
0°-40°	1345.4	27.6
0°-60°	2360.5	48.4
0°-90°	2988.4	61.3
90°-120°	313.7	6.4
90°-150°	1351.6	27.7
90°-180°	1884.0	38.7
0°-180°	4872.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1070	1070	1070	1070	1070	
5°	1067	1067	1076	1064	1062	101
15°	1029	1032	1037	1023	1014	290
25°	948	957	958	942	925	437
35°	834	845	844	826	809	521
45°	695	704	708	687	668	535
55°	537	547	552	532	514	479
65°	366	377	386	363	346	363
75°	194	200	205	188	177	205
85°	43	48	48	43	36	51
90°	0	0	0	0	0	1
95°	3	4	12	29	27	4
105°	18	45	89	61	65	21
115°	162	430	222	106	119	222
125°	644	567	355	174	150	566
135°	713	645	466	289	229	550
145°	743	695	556	412	351	465
155°	751	718	621	515	468	347
165°	734	718	665	596	568	209
175°	691	693	681	656	638	67
180°	675	675	675	675	675	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2
2.5°	1066.0	1069.3	1069.4	1069.6	1077.8	1068.8	1068.6	1068.4	1063.5
5°	1067.1	1067.1	1067.1	1065.3	1076.5	1064.2	1064.0	1061.9	1061.9
7.5°	1061.0	1059.2	1060.4	1058.1	1068.3	1055.0	1055.8	1053.5	1053.1
10°	1053.5	1052.5	1054.5	1050.6	1060.8	1047.5	1048.3	1045.1	1043.0
12.5°	1045.1	1044.1	1047.0	1041.4	1052.4	1039.1	1039.1	1035.1	1034.7
15°	1029.4	1029.4	1031.5	1027.5	1036.8	1023.5	1023.2	1018.9	1013.7
17.5°	1010.8	1008.6	1013.5	1007.0	1016.5	1001.5	1002.6	996.4	990.7
20°	994.9	991.8	1000.1	992.0	1002.2	984.8	987.6	978.1	974.0
22.5°	976.5	974.2	983.4	976.1	985.5	968.9	970.0	958.0	954.7
25°	947.8	946.8	957.2	949.1	958.3	940.9	941.6	928.9	924.8
27.5°	916.2	915.4	926.9	918.7	926.7	910.5	911.0	897.1	892.0
30°	894.5	894.5	906.0	897.8	904.9	889.6	889.2	874.5	869.4
32.5°	871.0	870.2	881.7	875.2	881.5	865.3	864.1	850.2	845.1
35°	833.8	833.8	845.3	838.1	844.3	829.9	826.5	812.8	808.7
37.5°	794.5	793.4	804.9	800.4	806.0	790.8	786.1	771.4	770.4
40°	766.8	765.8	777.3	775.3	778.3	764.0	758.5	743.7	738.6
42.5°	738.4	739.0	748.8	746.8	750.7	736.4	730.9	715.3	712.6
45°	694.7	693.6	704.1	703.1	708.3	693.9	687.3	670.5	668.5
47.5°	649.0	649.5	658.7	659.8	662.9	649.8	641.9	625.4	623.3
50°	617.2	619.3	627.7	628.8	631.9	619.6	611.0	595.2	593.2
52.5°	586.3	587.5	595.9	599.5	600.1	589.4	579.2	564.3	562.2
55°	536.7	539.8	547.1	551.4	552.4	543.2	531.5	516.7	513.7
57.5°	486.5	488.5	498.6	503.4	503.6	494.0	482.3	468.6	463.7
60°	453.0	455.0	463.5	470.8	471.8	460.6	448.8	435.1	431.0
62.5°	418.7	420.7	429.1	436.5	437.5	427.1	414.5	400.8	397.5
65°	366.2	368.2	376.6	385.0	386.0	375.8	363.0	349.4	346.3
67.5°	314.7	316.7	324.9	331.9	334.1	323.1	311.3	298.7	294.6
70°	280.4	282.4	289.8	295.1	298.2	287.9	276.2	263.5	259.4
72.5°	244.4	245.6	253.0	259.0	259.7	251.1	240.2	230.1	226.8
75°	193.5	195.6	199.8	206.1	205.0	196.9	188.3	180.9	176.8
77.5°	144.8	147.0	151.1	155.3	155.9	148.3	141.0	133.6	130.8
80°	113.0	116.1	119.3	123.4	122.4	117.3	110.9	103.5	101.5
82.5°	83.7	85.9	90.0	93.3	90.6	87.1	82.4	75.1	73.0
85°	42.9	43.9	48.1	51.2	48.1	47.1	42.9	37.6	35.6
87.5°	9.2	10.8	14.2	18.3	15.1	15.9	12.6	8.4	7.5
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	1.9	2.8	9.9	11.0	9.6	9.6
95°	2.9	2.9	4.0	12.6	12.0	20.4	28.7	26.9	26.9
97.5°	5.8	6.4	9.2	37.3	28.1	27.3	38.7	43.1	43.9
100°	8.6	9.2	13.8	60.9	41.8	35.7	42.4	50.5	52.2
102.5°	11.8	12.8	22.0	95.8	58.8	41.9	48.4	55.5	57.7
105°	17.8	19.4	45.3	160.6	88.8	54.6	60.7	63.7	65.3
107.5°	26.4	33.2	122.0	225.6	126.1	72.2	78.6	78.2	79.7
110°	35.5	49.5	210.9	261.2	153.6	85.8	86.0	90.5	88.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	58.9	98.5	314.5	295.4	181.1	102.1	92.8	102.9	103.5
115°	161.6	277.6	429.8	343.4	221.8	131.0	105.5	115.3	119.2
117.5°	400.7	483.0	488.9	386.0	262.4	163.3	119.9	124.3	129.4
120°	543.3	560.1	516.4	412.1	289.4	186.3	131.8	130.2	135.8
122.5°	599.2	593.2	538.8	436.5	316.0	210.7	146.5	137.5	141.3
125°	644.2	628.5	566.8	470.2	354.8	247.2	174.2	149.6	149.6
127.5°	671.0	652.7	592.5	500.1	389.7	284.0	207.6	169.2	163.9
130°	686.6	667.0	608.1	520.8	412.6	307.8	231.0	186.1	177.7
132.5°	698.5	680.7	622.7	537.0	435.1	331.2	254.3	207.0	193.3
135°	712.9	697.8	645.3	561.8	466.5	366.2	289.4	243.3	229.2
137.5°	722.2	710.5	665.6	582.1	495.6	400.9	324.8	278.5	265.8
140°	727.3	717.7	675.7	594.2	513.5	423.3	349.6	302.3	290.6
142.5°	732.3	724.6	683.0	607.6	530.9	445.6	373.9	326.6	313.9
145°	742.7	733.8	695.2	623.7	555.9	476.9	411.5	361.9	350.7
147.5°	750.1	739.3	705.1	641.1	579.5	505.2	446.0	398.2	387.1
150°	751.9	740.7	710.7	650.3	593.7	522.6	467.1	421.6	410.9
152.5°	750.5	742.0	714.8	658.2	605.7	539.4	486.3	444.0	434.3
155°	751.3	743.5	718.1	668.9	620.7	563.0	515.2	477.7	467.7
157.5°	747.9	742.7	720.4	677.0	634.5	584.0	541.7	510.2	500.0
160°	747.9	740.1	720.4	681.7	644.2	597.7	558.2	529.9	521.5
162.5°	742.9	735.9	719.9	685.1	653.3	610.4	573.8	547.4	541.2
165°	733.6	728.0	717.5	689.5	664.8	627.8	596.0	572.4	568.5
167.5°	726.4	718.6	712.9	689.3	672.6	640.3	614.8	595.3	593.0
170°	718.1	713.1	708.4	688.0	676.3	649.4	628.1	608.6	606.3
172.5°	707.6	704.8	702.4	687.2	678.6	657.0	639.6	621.8	617.8
175°	691.2	693.4	692.9	685.3	680.8	666.8	656.2	643.5	638.4
177.5°	681.1	680.2	682.5	681.1	680.6	672.1	669.2	660.5	663.2
180°	675.1	675.1	675.1	675.1	675.1	675.1	675.1	675.1	675.1

(END OF REPORT)