

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: P522349

Luminaire Tested: **SQW-F-050U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522349
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-050U-075D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

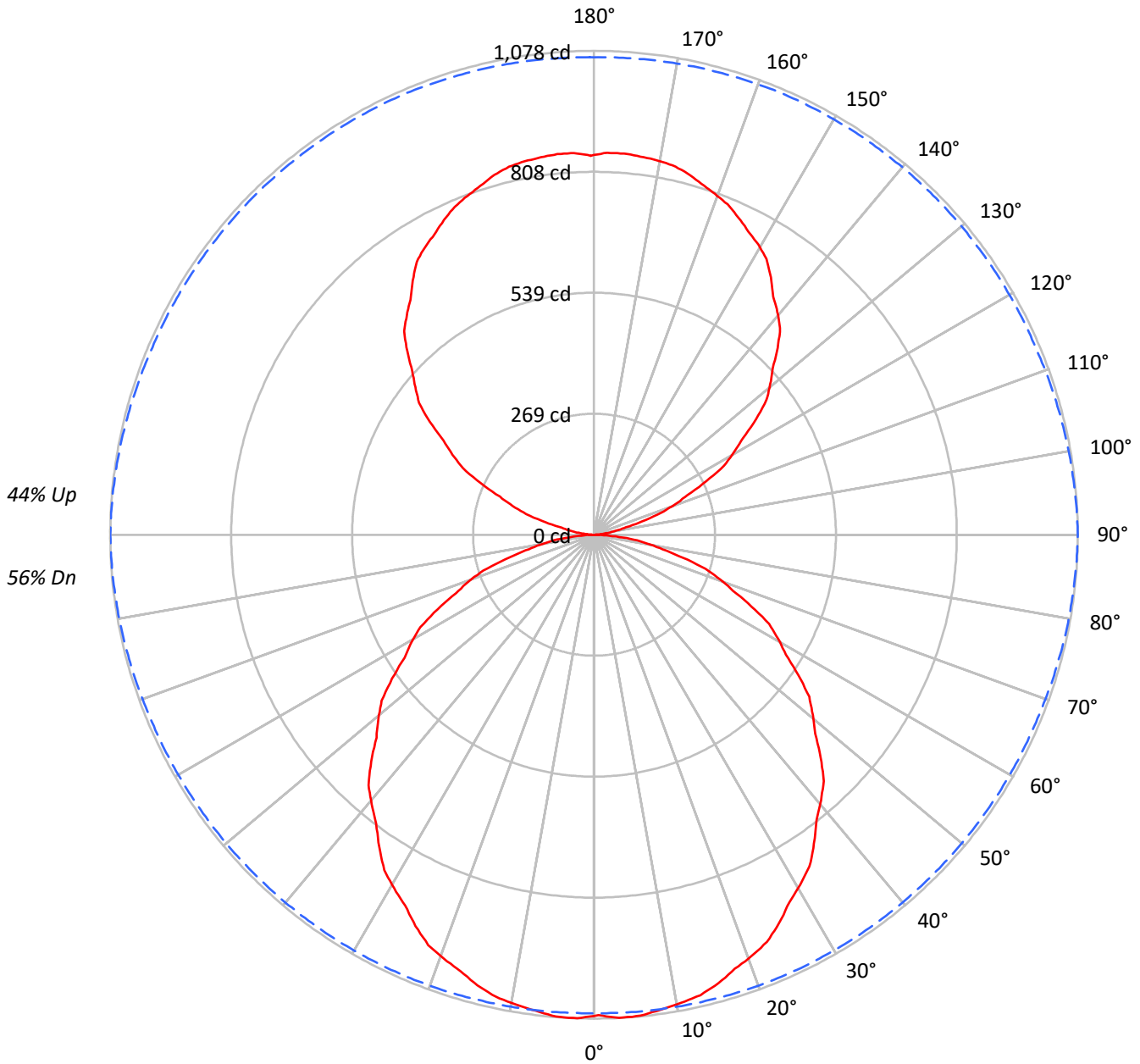
Lumens per Lamp: N/A
Luminaire Lumens: 5344.7 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 49.4
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				
RW	70	50	30	10	70	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	56		
1	99	95	91	87	92	88	85	81	76	73	71	65	63	61	54	53	52	47		
2	90	82	76	71	83	77	71	67	66	62	58	57	53	51	48	45	43	39		
3	82	72	65	59	76	67	61	55	58	53	49	50	46	43	42	39	37	33		
4	75	64	56	50	69	60	52	47	52	46	42	44	40	36	37	34	31	28		
5	69	57	49	42	64	53	46	40	46	40	36	40	35	32	34	30	27	24		
6	63	51	43	37	59	48	40	35	42	36	31	36	31	28	30	27	24	21		
7	59	46	38	32	54	43	36	31	38	32	27	33	28	24	28	24	21	19		
8	54	42	34	28	50	39	32	27	34	29	24	30	25	22	25	22	19	17		
9	51	38	31	25	47	36	29	24	31	26	22	27	23	19	23	20	17	15		
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	22	18	16	14		

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	1.9
10°-20°	289.3	5.4
20°-30°	435.1	8.1
30°-40°	519.7	9.7
40°-50°	534.3	10.0
50°-60°	480.9	9.0
60°-70°	365.9	6.8
70°-80°	207.4	3.9
80°-90°	54.5	1.0
90°-100°	22.2	0.4
100°-110°	96.1	1.8
110°-120°	274.1	5.1
120°-130°	416.8	7.8
130°-140°	450.8	8.4
140°-150°	430.7	8.1
150°-160°	354.2	6.6
160°-170°	231.5	4.3
170°-180°	80.1	1.5
0°-30°	825.6	15.4
0°-40°	1345.4	25.2
0°-60°	2360.5	44.2
0°-90°	2988.4	55.9
90°-120°	392.4	7.3
90°-150°	1690.6	31.6
90°-180°	2356.0	44.1
0°-180°	5344.7	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°	4	5	15	36	34	5
105°	22	57	111	76	82	26
115°	202	538	277	132	149	278
125°	806	709	444	218	187	708
135°	892	807	584	362	287	687
145°	929	870	695	515	439	582
155°	940	898	776	644	585	434
165°	918	898	832	746	711	261
175°	864	867	852	821	799	84
180°	844	844	844	844	844	



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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°	1.1	1.1	1.1	2.3	3.4	12.4	13.8	12.0	12.0
95°	3.6	3.6	5.0	15.8	15.1	25.6	35.8	33.7	33.7
97.5°	7.3	8.0	11.5	46.6	35.1	34.1	48.5	53.9	54.9
100°	10.8	11.5	17.2	76.2	52.3	44.6	53.0	63.1	65.2
102.5°	14.8	16.0	27.5	119.8	73.5	52.4	60.5	69.5	72.1
105°	22.2	24.3	56.6	200.8	111.1	68.4	76.0	79.6	81.7
107.5°	33.0	41.5	152.5	282.2	157.7	90.3	98.4	97.8	99.6
110°	44.4	62.0	263.8	326.7	192.1	107.3	107.5	113.2	111.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	73.7	123.2	393.4	369.5	226.5	127.7	116.1	128.8	129.5
115°	202.2	347.2	537.6	429.5	277.4	163.9	131.9	144.2	149.1
117.5°	501.2	604.1	611.5	482.8	328.2	204.3	150.0	155.4	161.9
120°	679.6	700.6	645.9	515.5	362.0	233.0	164.9	162.9	169.9
122.5°	749.5	742.0	674.0	546.0	395.3	263.5	183.2	172.0	176.8
125°	805.7	786.1	709.0	588.1	443.7	309.2	217.9	187.1	187.1
127.5°	839.3	816.4	741.1	625.5	487.5	355.3	259.6	211.6	205.0
130°	858.8	834.3	760.6	651.4	516.1	385.1	288.9	232.7	222.2
132.5°	873.7	851.4	778.9	671.7	544.2	414.3	318.1	259.0	241.7
135°	891.8	872.8	807.2	702.7	583.5	458.1	362.0	304.3	286.7
137.5°	903.4	888.7	832.6	728.2	619.9	501.5	406.3	348.3	332.5
140°	909.7	897.8	845.2	743.2	642.3	529.5	437.3	378.2	363.4
142.5°	916.0	906.3	854.3	760.0	664.1	557.4	467.7	408.5	392.7
145°	929.0	917.8	869.5	780.2	695.3	596.5	514.7	452.7	438.7
147.5°	938.2	924.8	882.0	801.8	724.9	631.9	557.9	498.0	484.2
150°	940.5	926.5	888.9	813.5	742.7	653.6	584.2	527.3	514.0
152.5°	938.8	928.1	894.1	823.3	757.6	674.7	608.3	555.4	543.2
155°	939.8	930.0	898.2	836.6	776.4	704.2	644.5	597.6	585.0
157.5°	935.5	929.0	901.1	846.8	793.7	730.5	677.6	638.1	625.4
160°	935.5	925.7	901.1	852.7	805.7	747.6	698.2	662.8	652.3
162.5°	929.2	920.5	900.5	856.9	817.2	763.5	717.7	684.7	677.0
165°	917.6	910.6	897.5	862.4	831.5	785.3	745.5	716.0	711.1
167.5°	908.5	898.9	891.8	862.2	841.3	800.9	769.0	744.6	741.8
170°	898.2	891.9	886.0	860.6	845.9	812.2	785.7	761.2	758.4
172.5°	885.0	881.5	878.6	859.5	848.8	821.8	800.0	777.8	772.8
175°	864.5	867.3	866.7	857.2	851.6	834.1	820.8	804.9	798.6
177.5°	851.9	850.8	853.6	851.9	851.3	840.7	837.0	826.2	829.5
180°	844.5	844.5	844.5	844.5	844.5	844.5	844.5	844.5	844.5

(END OF REPORT)