

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: P522526

Luminaire Tested: **SQW-F-050U-075D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522526  
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-050U-075D-93050-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

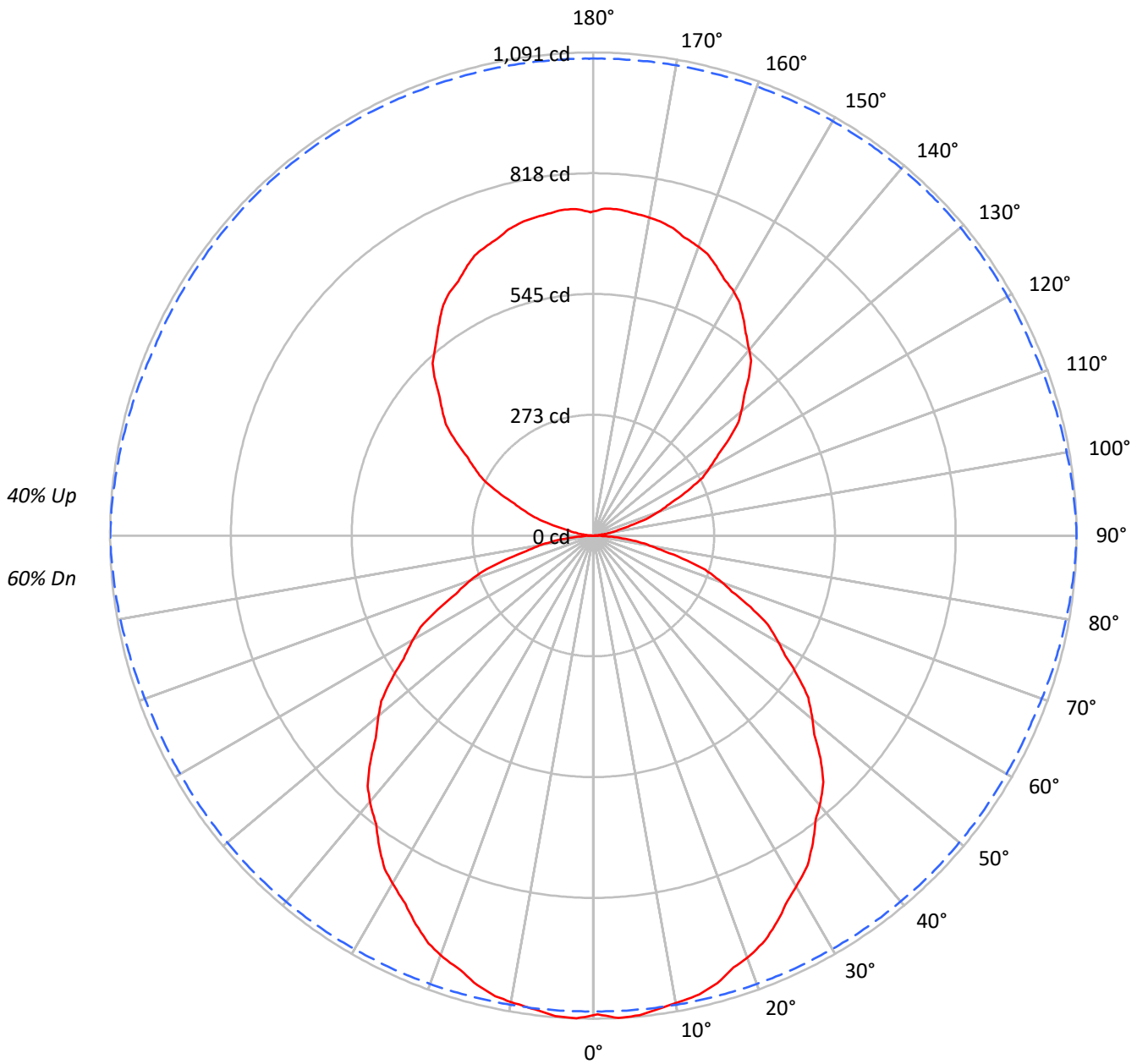
Lumens per Lamp: N/A  
Luminaire Lumens: 5045.1 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 48.8  
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	102	102	102	102	89	89	89	76	76	76	65	65	65	60		
1	100	95	91	88	93	89	86	83	78	75	73	67	65	63	57	56	55	50		
2	91	83	77	71	84	78	72	68	68	64	60	59	56	53	50	48	46	42		
3	83	73	65	59	77	68	62	56	60	55	50	52	48	44	44	41	39	35		
4	76	64	56	50	70	60	53	48	53	47	43	46	42	38	40	36	33	30		
5	69	57	49	43	65	54	46	41	47	41	37	41	37	33	36	32	29	26		
6	64	51	43	37	59	48	41	35	43	37	32	37	32	29	32	28	25	23		
7	59	46	38	33	55	44	36	31	39	33	28	34	29	25	29	25	23	20		
8	55	42	34	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18		
9	51	39	31	26	48	36	29	25	32	27	22	28	24	20	25	21	18	16		
10	48	35	28	23	45	33	27	22	30	24	20	26	22	18	23	19	16	15		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	17452	17452	17452
5°	17386	17634	17485
10°	17203	17554	17505
15°	17115	17523	17387
20°	16857	17383	17295
25°	16554	17190	17152
30°	16242	16982	16887
35°	15948	16811	16630
40°	15616	16647	16432
45°	15269	16408	16175
50°	14878	16056	15850
55°	14410	15758	15415
60°	13837	15381	14987
65°	13066	14892	14388
70°	12203	14224	13695
75°	10792	12951	12445
80°	8991	11353	10981
85°	5854	8855	8485



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.2	2.0
10°-20°	291.8	5.8
20°-30°	439.0	8.7
30°-40°	524.5	10.4
40°-50°	539.7	10.7
50°-60°	485.2	9.6
60°-70°	369.6	7.3
70°-80°	209.7	4.2
80°-90°	54.9	1.1
90°-100°	18.4	0.4
100°-110°	81.8	1.6
110°-120°	235.0	4.7
120°-130°	357.9	7.1
130°-140°	388.5	7.7
140°-150°	371.5	7.4
150°-160°	306.0	6.1
160°-170°	200.3	4.0
170°-180°	69.3	1.4
0°-30°	833.1	16.5
0°-40°	1357.5	26.9
0°-60°	2382.3	47.2
0°-90°	3016.6	59.8
90°-120°	335.1	6.6
90°-150°	1452.9	28.8
90°-180°	2029.0	40.2
0°-180°	5045.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1081	1081	1081	1081	1081	
5°	1073	1074	1088	1081	1079	102
15°	1024	1029	1048	1043	1040	288
25°	929	950	965	971	963	428
35°	809	830	853	858	844	506
45°	669	688	719	716	708	515
55°	512	532	560	557	548	457
65°	342	363	390	387	377	339
75°	173	187	208	206	200	184
85°	32	41	48	51	46	41
90°	0	0	0	0	0	1
95°	3	4	13	29	28	4
105°	18	50	94	65	69	21
115°	176	463	237	111	124	243
125°	700	609	378	187	159	614
135°	771	698	501	310	247	596
145°	807	752	597	441	377	506
155°	816	782	669	554	505	377
165°	798	778	717	644	613	226
175°	752	754	739	706	689	73
180°	730	730	730	730	730	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9
2.5°	1074.4	1077.6	1079.3	1075.5	1090.7	1077.9	1082.5	1079.2	1076.8
5°	1072.7	1071.7	1073.8	1070.1	1088.0	1074.1	1080.9	1075.9	1078.8
7.5°	1062.4	1060.4	1064.0	1064.5	1078.0	1067.9	1071.9	1070.6	1074.2
10°	1049.3	1051.3	1057.5	1058.8	1070.7	1059.8	1064.6	1065.7	1067.7
12.5°	1043.6	1040.1	1046.9	1050.6	1063.4	1050.0	1058.9	1058.4	1062.0
15°	1023.9	1022.9	1029.0	1032.4	1048.3	1036.4	1043.2	1043.2	1040.2
17.5°	999.1	999.1	1007.2	1008.8	1025.5	1016.8	1023.5	1020.4	1019.6
20°	981.1	981.1	993.4	991.8	1011.7	1003.7	1009.6	1002.6	1006.6
22.5°	960.8	961.6	976.3	973.8	992.9	988.2	995.0	984.7	989.5
25°	929.2	932.2	949.6	947.9	964.9	959.9	971.0	958.8	962.8
27.5°	895.6	899.8	917.2	917.0	933.7	930.1	942.9	928.8	929.4
30°	871.2	876.2	893.6	895.0	910.9	904.9	920.1	906.8	905.8
32.5°	847.6	851.8	869.2	872.2	888.1	884.5	896.5	883.2	881.4
35°	809.1	814.1	830.5	836.0	852.9	847.9	858.0	845.7	843.7
37.5°	769.4	772.6	790.0	794.7	815.0	810.9	817.3	805.5	805.7
40°	740.9	744.9	762.3	767.9	789.8	784.8	788.8	778.6	779.6
42.5°	712.4	716.4	733.0	741.0	761.3	756.3	759.5	750.9	751.1
45°	668.7	671.7	688.0	698.7	718.6	713.6	715.5	707.4	708.4
47.5°	623.3	625.5	640.4	655.2	671.7	669.5	669.9	659.8	662.8
50°	592.3	595.3	608.6	624.2	639.2	640.2	638.1	628.0	631.0
52.5°	560.6	562.8	578.5	591.7	607.4	609.2	605.6	596.3	598.5
55°	511.9	513.9	532.3	545.8	559.8	560.8	556.7	549.6	547.6
57.5°	461.9	464.9	482.0	496.8	510.5	508.7	506.7	498.3	496.7
60°	428.5	431.5	447.8	463.4	476.3	475.3	473.3	464.1	464.1
62.5°	394.3	398.1	415.3	429.2	442.1	441.9	439.1	432.3	430.7
65°	342.0	346.0	363.3	375.9	389.8	389.8	386.8	378.6	376.6
67.5°	291.9	295.9	310.2	323.2	337.1	335.9	333.0	327.9	325.1
70°	258.5	262.5	272.8	287.3	301.3	299.3	297.2	292.1	290.1
72.5°	222.7	227.5	237.8	250.7	263.8	263.4	261.4	258.6	254.2
75°	173.0	176.0	187.3	198.7	207.6	208.6	205.6	204.5	199.5
77.5°	126.0	129.8	139.0	148.9	155.5	158.7	156.9	154.4	150.6
80°	96.7	99.7	108.9	117.2	122.1	126.1	125.2	121.0	118.1
82.5°	69.0	72.0	79.6	87.0	91.2	95.2	94.2	91.7	87.1
85°	31.6	33.5	40.7	45.8	47.8	52.8	50.9	48.8	45.8
87.5°	4.9	5.7	10.6	15.5	14.7	19.4	17.1	13.8	10.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.5	0.5	1.1	1.7	2.7	10.2	11.4	10.3	9.8
95°	2.7	2.7	4.1	12.9	12.9	20.9	28.6	27.9	27.9
97.5°	6.1	6.8	9.5	39.4	29.4	28.6	40.8	44.9	45.3
100°	8.8	9.5	15.0	64.1	43.5	36.9	43.5	53.1	55.1
102.5°	12.1	13.3	23.7	101.3	61.5	44.2	51.1	58.0	60.0
105°	18.4	20.4	49.7	169.7	93.9	58.6	64.6	68.0	68.7
107.5°	27.6	35.1	135.9	238.6	133.2	77.6	81.1	83.4	84.2
110°	37.4	53.4	236.0	280.3	162.6	92.1	89.8	95.9	94.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	63.0	109.8	346.5	314.4	191.9	109.2	97.9	107.9	108.7
115°	176.2	302.5	463.2	363.0	236.7	138.9	110.9	120.5	124.5
117.5°	442.1	526.0	524.7	408.0	279.7	173.9	126.4	131.0	135.5
120°	594.4	607.1	555.7	438.4	307.4	199.0	139.4	137.5	141.5
122.5°	651.0	640.8	579.1	465.1	335.7	225.2	156.3	144.5	148.0
125°	699.9	679.9	609.4	503.2	377.5	263.8	187.0	159.8	159.2
127.5°	726.9	706.1	639.1	536.2	415.8	303.8	222.0	181.5	175.3
130°	740.0	720.7	659.7	556.5	441.4	331.0	247.6	200.4	191.1
132.5°	755.8	734.9	674.4	577.2	465.9	356.6	273.1	223.2	212.3
135°	771.3	752.0	698.5	604.3	500.6	394.2	310.1	260.9	246.9
137.5°	785.2	767.5	720.5	625.6	531.9	431.2	349.3	301.3	284.3
140°	794.4	775.1	729.8	642.0	550.9	454.5	375.4	327.5	314.2
142.5°	797.7	785.8	739.6	655.8	572.1	476.8	401.6	352.0	339.8
145°	807.3	799.3	751.6	672.3	597.2	510.0	441.4	390.1	376.8
147.5°	813.6	801.6	762.6	690.1	621.6	539.9	477.6	428.3	416.0
150°	814.1	804.8	771.3	701.2	638.0	561.5	499.9	453.4	442.1
152.5°	818.5	807.0	775.6	710.5	649.9	579.8	522.2	478.9	466.6
155°	815.5	807.5	782.2	722.4	668.6	603.4	553.6	515.3	504.7
157.5°	815.5	805.6	783.0	731.8	686.5	629.3	583.0	547.6	539.6
160°	810.0	806.1	783.5	738.3	695.8	643.9	602.6	570.4	559.8
162.5°	807.9	801.2	784.6	742.8	703.9	655.8	619.5	589.0	581.0
165°	798.5	792.5	778.1	744.8	716.9	677.0	644.1	616.8	612.8
167.5°	787.7	783.1	773.6	748.1	725.4	692.9	665.2	643.2	637.7
170°	780.1	772.8	769.2	749.7	729.8	702.5	678.8	658.9	652.9
172.5°	767.1	766.1	763.3	745.6	733.6	711.1	691.3	673.1	669.3
175°	751.6	751.6	753.6	742.6	738.6	720.0	706.0	695.0	689.0
177.5°	733.6	734.1	738.5	738.0	738.5	727.9	723.8	713.4	712.4
180°	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8

(END OF REPORT)