

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: P522549

Luminaire Tested: **SQW-F-075U-075D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522549
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-075U-075D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

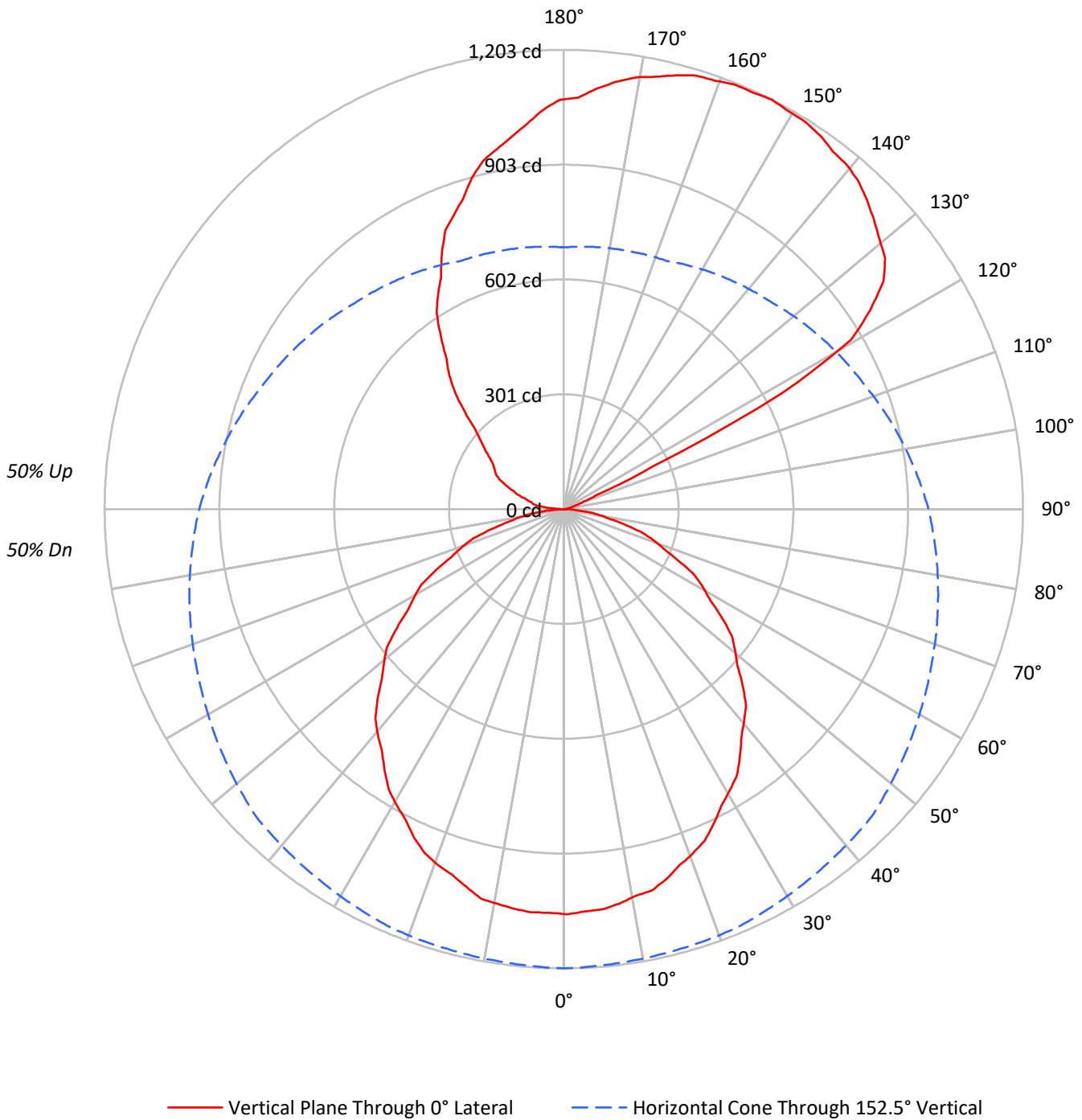
Lumens per Lamp: N/A
Luminaire Lumens: 5946.4 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57
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





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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	70	68	61	59	57	49	48	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	39	35
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	38	36	33	29
4	74	63	55	49	68	58	51	46	50	44	40	42	37	34	34	31	29	25
5	68	56	48	42	62	52	45	39	44	39	34	37	33	30	31	27	25	22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	24	22	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	20	17	15
9	50	37	30	25	46	35	28	23	30	25	21	26	21	18	21	18	16	13
10	46	34	27	22	43	32	25	21	28	22	19	24	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	17147	17147	17147
5°	17083	17326	17180
10°	16903	17247	17198
15°	16816	17217	17083
20°	16563	17079	16993
25°	16265	16889	16853
30°	15959	16686	16593
35°	15670	16517	16340
40°	15344	16356	16145
45°	15002	16121	15892
50°	14619	15774	15573
55°	14159	15482	15144
60°	13595	15113	14725
65°	12837	14632	14136
70°	11991	13973	13454
75°	10605	12726	12227
80°	8833	11158	10786
85°	5743	8707	8336



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	1.7
10°-20°	286.7	4.8
20°-30°	431.4	7.3
30°-40°	515.3	8.7
40°-50°	530.2	8.9
50°-60°	476.7	8.0
60°-70°	363.2	6.1
70°-80°	206.0	3.5
80°-90°	54.0	0.9
90°-100°	27.1	0.5
100°-110°	120.2	2.0
110°-120°	345.4	5.8
120°-130°	526.2	8.8
130°-140°	571.1	9.6
140°-150°	546.2	9.2
150°-160°	449.9	7.6
160°-170°	294.4	5.0
170°-180°	101.9	1.7
0°-30°	818.5	13.8
0°-40°	1333.8	22.4
0°-60°	2340.7	39.4
0°-90°	2963.9	49.8
90°-120°	492.7	8.3
90°-150°	2136.2	35.9
90°-180°	2983.0	50.2
0°-180°	5946.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1062	1062	1062	1062	1062	
5°	1054	1055	1069	1062	1060	100
15°	1006	1011	1030	1025	1022	283
25°	913	933	948	954	946	420
35°	795	816	838	843	829	497
45°	657	676	706	703	696	506
55°	503	523	550	547	538	449
65°	336	357	383	380	370	333
75°	170	184	204	202	196	181
85°	31	40	47	50	45	40
90°	0	0	0	0	0	1
95°	4	6	19	42	41	5
105°	27	73	138	95	101	31
115°	259	681	348	163	183	358
125°	1029	896	555	275	234	903
135°	1134	1027	736	456	363	876
145°	1187	1105	878	649	554	744
155°	1199	1150	983	814	742	555
165°	1174	1144	1054	947	901	333
175°	1105	1108	1086	1038	1013	107
180°	1073	1073	1073	1073	1073	



TEST NUMBER: P522549

CATALOG NUMBER: SQW-F-075U-075D-93050-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1062.0	1062.0	1062.0	1062.0	1062.0	1062.0	1062.0	1062.0	1062.0
2.5°	1055.6	1058.7	1060.4	1056.7	1071.6	1059.1	1063.6	1060.3	1058.0
5°	1054.0	1053.0	1055.0	1051.4	1069.0	1055.3	1062.0	1057.1	1060.0
7.5°	1043.8	1041.8	1045.4	1045.9	1059.2	1049.2	1053.2	1051.9	1055.4
10°	1031.0	1033.0	1039.0	1040.3	1052.0	1041.2	1046.0	1047.0	1049.0
12.5°	1025.4	1021.9	1028.6	1032.3	1044.8	1031.7	1040.4	1039.9	1043.4
15°	1006.0	1005.0	1011.0	1014.4	1030.0	1018.3	1025.0	1024.9	1022.0
17.5°	981.6	981.6	989.6	991.2	1007.6	999.0	1005.6	1002.6	1001.8
20°	964.0	964.0	976.0	974.4	994.0	986.2	992.0	985.1	989.0
22.5°	944.0	944.8	959.2	956.8	975.6	970.9	977.6	967.5	972.2
25°	913.0	915.9	933.0	931.4	948.0	943.1	954.0	942.1	946.0
27.5°	880.0	884.1	901.2	901.0	917.4	913.9	926.4	912.6	913.2
30°	856.0	860.9	878.0	879.4	895.0	889.1	904.0	891.0	890.0
32.5°	832.8	836.9	854.0	857.0	872.6	869.1	880.8	867.8	866.0
35°	795.0	799.9	816.0	821.4	838.0	833.1	843.0	831.0	829.0
37.5°	756.0	759.1	776.2	780.9	800.8	796.7	803.0	791.4	791.6
40°	728.0	731.9	749.0	754.5	776.0	771.1	775.0	765.0	766.0
42.5°	700.0	703.9	720.2	728.1	748.0	743.1	746.2	737.8	738.0
45°	657.0	659.9	676.0	686.4	706.0	701.1	703.0	695.0	696.0
47.5°	612.4	614.6	629.2	643.8	660.0	657.8	658.2	648.3	651.2
50°	582.0	584.9	598.0	613.3	628.0	629.0	627.0	617.1	620.0
52.5°	550.8	553.0	568.4	581.4	596.8	598.6	595.0	585.8	588.0
55°	503.0	505.0	523.0	536.3	550.0	551.0	547.0	540.0	538.0
57.5°	453.8	456.7	473.6	488.1	501.6	499.8	497.8	489.6	488.0
60°	421.0	423.9	440.0	455.3	468.0	467.0	465.0	456.0	456.0
62.5°	387.4	391.1	408.0	421.7	434.4	434.2	431.4	424.8	423.2
65°	336.0	339.9	357.0	369.3	383.0	383.0	380.0	372.0	370.0
67.5°	286.8	290.7	304.8	317.5	331.2	330.0	327.2	322.1	319.4
70°	254.0	257.9	268.0	282.3	296.0	294.0	292.0	287.0	285.0
72.5°	218.8	223.5	233.6	246.3	259.2	258.8	256.8	254.1	249.8
75°	170.0	172.9	184.0	195.2	204.0	205.0	202.0	200.9	196.0
77.5°	123.8	127.5	136.6	146.3	152.8	155.9	154.2	151.7	148.0
80°	95.0	97.9	107.0	115.1	120.0	123.9	123.0	118.9	116.0
82.5°	67.8	70.7	78.2	85.5	89.6	93.5	92.6	90.1	85.6
85°	31.0	33.0	40.0	45.0	47.0	51.9	50.0	47.9	45.0
87.5°	4.8	5.6	10.4	15.2	14.4	19.1	16.8	13.5	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.8	0.8	1.6	2.4	4.0	15.0	16.8	15.2	14.4
95°	4.0	4.0	6.0	19.0	19.0	30.7	42.0	41.0	41.0
97.5°	9.0	10.0	14.0	57.9	43.2	42.0	60.0	66.0	66.6
100°	13.0	14.0	22.0	94.3	64.0	54.2	64.0	78.1	81.0
102.5°	17.8	19.6	34.8	148.9	90.4	65.0	75.2	85.3	88.2
105°	27.0	29.9	73.0	249.5	138.0	86.2	95.0	100.0	101.0
107.5°	40.6	51.6	199.8	350.9	195.8	114.1	119.2	122.6	123.8
110°	55.0	78.5	347.0	412.1	239.0	135.4	132.0	141.0	139.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	92.6	161.4	509.4	462.3	282.2	160.6	144.0	158.6	159.8
115°	259.0	444.8	681.0	533.8	348.0	204.3	163.0	177.1	183.0
117.5°	650.0	773.4	771.4	599.9	411.2	255.7	185.8	192.6	199.2
120°	874.0	892.6	817.0	644.6	452.0	292.6	205.0	202.1	208.0
122.5°	957.2	942.1	851.4	683.9	493.6	331.1	229.8	212.5	217.6
125°	1029.0	999.7	896.0	739.8	555.0	387.8	275.0	235.0	234.0
127.5°	1068.8	1038.1	939.6	788.4	611.4	446.7	326.4	266.8	257.8
130°	1088.0	1059.6	970.0	818.2	649.0	486.7	364.0	294.7	281.0
132.5°	1111.2	1080.5	991.6	848.7	685.0	524.3	401.6	328.2	312.2
135°	1134.0	1105.6	1027.0	888.5	736.0	579.6	456.0	383.5	363.0
137.5°	1154.4	1128.4	1059.4	919.9	782.0	634.0	513.6	443.0	418.0
140°	1168.0	1139.6	1073.0	944.0	810.0	668.2	552.0	481.6	462.0
142.5°	1172.8	1155.4	1087.4	964.2	841.2	701.0	590.4	517.6	499.6
145°	1187.0	1175.3	1105.0	988.5	878.0	749.9	649.0	573.6	554.0
147.5°	1196.2	1178.6	1121.2	1014.7	914.0	793.7	702.2	629.8	611.6
150°	1197.0	1183.3	1134.0	1030.9	938.0	825.6	735.0	666.6	650.0
152.5°	1203.4	1186.6	1140.4	1044.6	955.6	852.5	767.8	704.2	686.0
155°	1199.0	1187.3	1150.0	1062.2	983.0	887.2	814.0	757.6	742.0
157.5°	1199.0	1184.5	1151.2	1075.9	1009.4	925.3	857.2	805.1	793.4
160°	1191.0	1185.1	1152.0	1085.6	1023.0	946.7	886.0	838.6	823.0
162.5°	1187.8	1178.0	1153.6	1092.1	1035.0	964.2	910.8	865.9	854.2
165°	1174.0	1165.2	1144.0	1095.1	1054.0	995.3	947.0	906.9	901.0
167.5°	1158.2	1151.4	1137.4	1099.8	1066.6	1018.7	978.0	945.6	937.6
170°	1147.0	1136.2	1131.0	1102.3	1073.0	1032.9	998.0	968.8	960.0
172.5°	1127.8	1126.4	1122.2	1096.2	1078.6	1045.6	1016.4	989.7	984.0
175°	1105.0	1105.0	1108.0	1091.9	1086.0	1058.6	1038.0	1021.8	1013.0
177.5°	1078.6	1079.4	1085.8	1085.0	1085.8	1070.2	1064.2	1049.0	1047.4
180°	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0

(END OF REPORT)