

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: P522548

Luminaire Tested: **SQW-F-075U-075D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522548
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 (3000K)
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 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

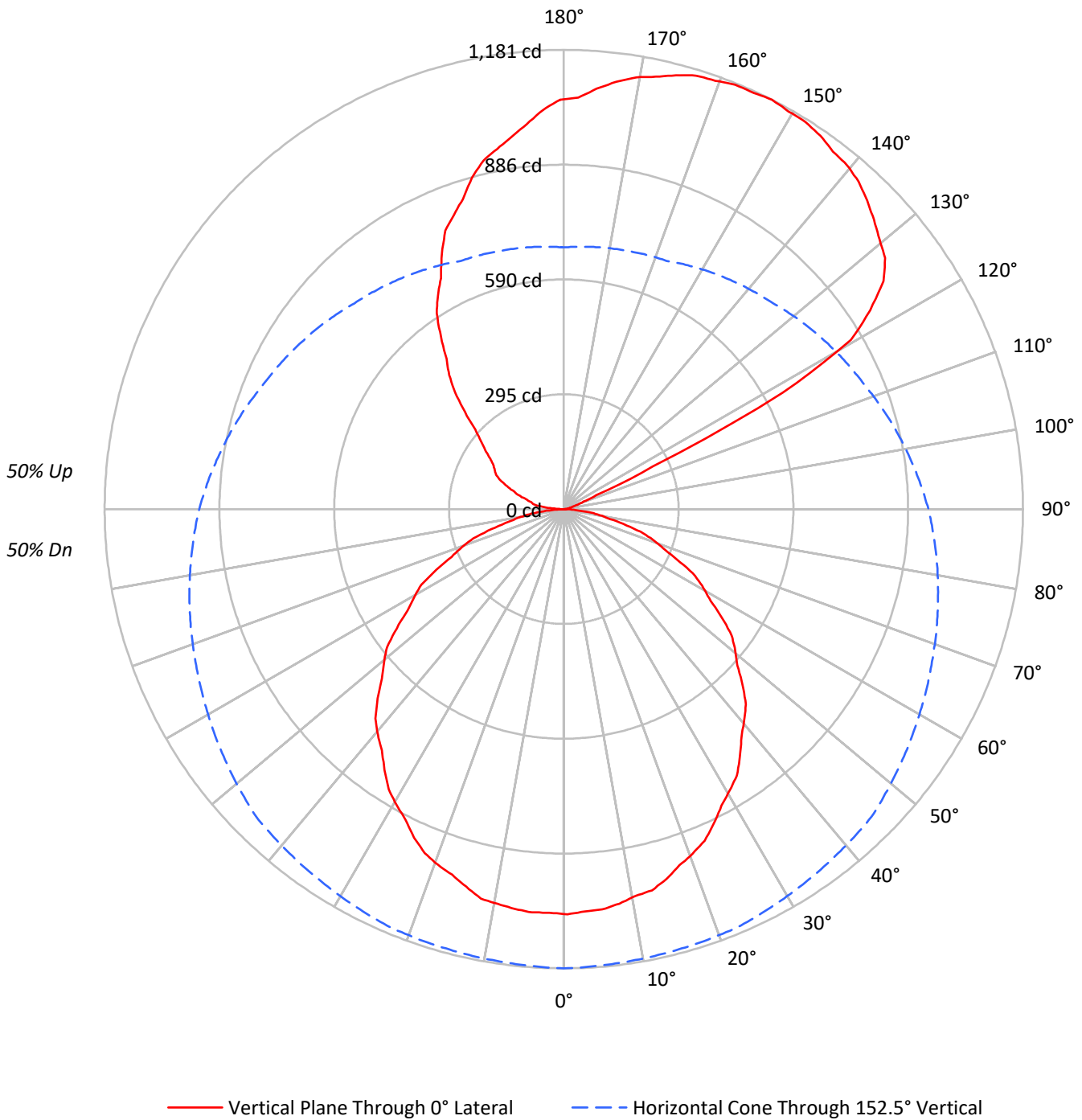
Lumens per Lamp: N/A
Luminaire Lumens: 5834.6 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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°	16824	16824	16824
5°	16762	17000	16857
10°	16585	16923	16875
15°	16500	16893	16762
20°	16252	16758	16673
25°	15959	16571	16536
30°	15659	16373	16281
35°	15376	16208	16032
40°	15055	16048	15841
45°	14721	15817	15593
50°	14345	15478	15282
55°	13892	15192	14860
60°	13340	14828	14447
65°	12596	14357	13868
70°	11764	13709	13199
75°	10405	12489	11996
80°	8666	10944	10581
85°	5632	8540	8188



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	1.7
10°-20°	281.3	4.8
20°-30°	423.3	7.3
30°-40°	505.6	8.7
40°-50°	520.3	8.9
50°-60°	467.7	8.0
60°-70°	356.3	6.1
70°-80°	202.2	3.5
80°-90°	53.0	0.9
90°-100°	26.6	0.5
100°-110°	117.9	2.0
110°-120°	338.9	5.8
120°-130°	516.3	8.8
130°-140°	560.4	9.6
140°-150°	535.9	9.2
150°-160°	441.5	7.6
160°-170°	288.9	5.0
170°-180°	100.0	1.7
0°-30°	803.1	13.8
0°-40°	1308.7	22.4
0°-60°	2296.7	39.4
0°-90°	2908.2	49.8
90°-120°	483.5	8.3
90°-150°	2096.1	35.9
90°-180°	2926.0	50.1
0°-180°	5834.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1042	1042	1042	1042	1042	
5°	1034	1035	1049	1042	1040	98
15°	987	992	1011	1006	1003	278
25°	896	916	930	936	928	413
35°	780	801	822	827	813	488
45°	645	663	693	690	683	497
55°	494	513	540	537	528	441
65°	330	350	376	373	363	327
75°	167	180	200	198	192	178
85°	30	39	46	49	44	40
90°	0	0	0	0	0	1
95°	4	6	19	41	40	5
105°	26	72	135	93	99	31
115°	254	668	342	160	180	351
125°	1010	879	545	270	230	886
135°	1113	1008	722	447	356	859
145°	1165	1084	862	637	544	730
155°	1176	1128	964	799	728	545
165°	1152	1122	1034	929	884	327
175°	1084	1087	1066	1018	994	105
180°	1053	1053	1053	1053	1053	



TEST NUMBER: P522548

CATALOG NUMBER: SQW-F-075U-075D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1042.0	1042.0	1042.0	1042.0	1042.0	1042.0	1042.0	1042.0	1042.0
2.5°	1035.8	1038.8	1040.5	1036.9	1051.5	1039.2	1043.6	1040.4	1038.1
5°	1034.2	1033.2	1035.2	1031.6	1048.9	1035.5	1042.0	1037.2	1040.1
7.5°	1024.2	1022.3	1025.8	1026.3	1039.3	1029.5	1033.4	1032.1	1035.6
10°	1011.6	1013.5	1019.5	1020.7	1032.2	1021.7	1026.3	1027.4	1029.3
12.5°	1006.1	1002.7	1009.3	1012.9	1025.2	1012.3	1020.9	1020.3	1023.8
15°	987.1	986.1	992.0	995.3	1010.6	999.1	1005.7	1005.7	1002.8
17.5°	963.2	963.2	971.0	972.5	988.7	980.2	986.7	983.7	983.0
20°	945.9	945.9	957.7	956.1	975.3	967.6	973.4	966.6	970.4
22.5°	926.3	927.0	941.2	938.8	957.3	952.7	959.2	949.3	953.9
25°	895.8	898.7	915.5	913.9	930.2	925.4	936.1	924.4	928.2
27.5°	863.5	867.5	884.3	884.0	900.2	896.7	909.0	895.5	896.0
30°	839.9	844.7	861.5	862.8	878.2	872.4	887.0	874.2	873.3
32.5°	817.2	821.2	838.0	840.9	856.2	852.8	864.3	851.5	849.7
35°	780.1	784.9	800.7	805.9	822.3	817.5	827.2	815.3	813.4
37.5°	741.8	744.9	761.6	766.2	785.8	781.7	787.9	776.5	776.7
40°	714.3	718.2	734.9	740.3	761.4	756.6	760.4	750.6	751.6
42.5°	686.8	690.7	706.7	714.4	733.9	729.1	732.2	723.9	724.1
45°	644.7	647.5	663.3	673.5	692.7	687.9	689.8	682.0	682.9
47.5°	600.9	603.0	617.4	631.7	647.6	645.5	645.8	636.1	639.0
50°	571.1	573.9	586.8	601.8	616.2	617.2	615.2	605.5	608.4
52.5°	540.5	542.6	557.7	570.4	585.6	587.3	583.8	574.8	577.0
55°	493.5	495.5	513.2	526.2	539.7	540.6	536.7	529.8	527.9
57.5°	445.3	448.2	464.7	478.9	492.2	490.4	488.4	480.4	478.8
60°	413.1	416.0	431.7	446.7	459.2	458.2	456.3	447.4	447.4
62.5°	380.1	383.8	400.3	413.8	426.2	426.0	423.3	416.8	415.2
65°	329.7	333.5	350.3	362.4	375.8	375.8	372.9	365.0	363.0
67.5°	281.4	285.2	299.1	311.5	325.0	323.8	321.1	316.1	313.4
70°	249.2	253.1	263.0	277.0	290.4	288.5	286.5	281.6	279.6
72.5°	214.7	219.3	229.2	241.7	254.3	253.9	252.0	249.3	245.1
75°	166.8	169.7	180.5	191.5	200.2	201.1	198.2	197.1	192.3
77.5°	121.5	125.1	134.0	143.6	149.9	153.0	151.3	148.9	145.2
80°	93.2	96.1	105.0	112.9	117.7	121.6	120.7	116.7	113.8
82.5°	66.5	69.4	76.7	83.9	87.9	91.8	90.9	88.4	84.0
85°	30.4	32.3	39.2	44.2	46.1	50.9	49.1	47.0	44.2
87.5°	4.7	5.5	10.2	14.9	14.1	18.7	16.5	13.3	10.2
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	3.9	14.7	16.5	14.9	14.1
95°	3.9	3.9	5.9	18.6	18.6	30.2	41.2	40.2	40.2
97.5°	8.8	9.8	13.7	56.8	42.4	41.2	58.9	64.8	65.3
100°	12.8	13.7	21.6	92.5	62.8	53.2	62.8	76.6	79.5
102.5°	17.5	19.2	34.1	146.1	88.7	63.8	73.8	83.7	86.5
105°	26.5	29.4	71.6	244.8	135.4	84.6	93.2	98.1	99.1
107.5°	39.8	50.6	196.0	344.3	192.1	111.9	117.0	120.3	121.5
110°	54.0	77.0	340.5	404.3	234.5	132.8	129.5	138.3	136.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	90.9	158.4	499.8	453.6	276.9	157.5	141.3	155.6	156.8
115°	254.1	436.4	668.2	523.7	341.5	200.4	159.9	173.8	179.6
117.5°	637.8	758.9	756.9	588.6	403.5	250.9	182.3	188.9	195.5
120°	857.6	875.8	801.6	632.5	443.5	287.1	201.1	198.3	204.1
122.5°	939.2	924.4	835.4	671.0	484.3	324.9	225.5	208.5	213.5
125°	1009.7	980.9	879.2	725.9	544.6	380.5	269.8	230.6	229.6
127.5°	1048.7	1018.6	921.9	773.6	599.9	438.3	320.3	261.8	253.0
130°	1067.6	1039.7	951.8	802.8	636.8	477.5	357.2	289.2	275.7
132.5°	1090.3	1060.2	973.0	832.7	672.1	514.4	394.1	322.1	306.3
135°	1112.7	1084.9	1007.7	871.8	722.2	568.7	447.4	376.3	356.2
137.5°	1132.7	1107.2	1039.5	902.6	767.3	622.1	504.0	434.7	410.1
140°	1146.1	1118.2	1052.8	926.2	794.8	655.7	541.6	472.5	453.3
142.5°	1150.8	1133.7	1067.0	946.1	825.4	687.8	579.3	507.9	490.2
145°	1164.7	1153.2	1084.2	969.9	861.5	735.8	636.8	562.8	543.6
147.5°	1173.7	1156.5	1100.1	995.6	896.8	778.8	689.0	618.0	600.1
150°	1174.5	1161.1	1112.7	1011.5	920.4	810.0	721.2	654.1	637.8
152.5°	1180.8	1164.3	1119.0	1025.0	937.6	836.5	753.4	691.0	673.1
155°	1176.5	1165.0	1128.4	1042.2	964.5	870.5	798.7	743.4	728.1
157.5°	1176.5	1162.3	1129.6	1055.7	990.4	907.9	841.1	790.0	778.5
160°	1168.6	1162.9	1130.4	1065.2	1003.8	928.9	869.4	822.9	807.5
162.5°	1165.5	1155.9	1131.9	1071.6	1015.6	946.1	893.7	849.7	838.2
165°	1151.9	1143.3	1122.5	1074.5	1034.2	976.6	929.2	889.8	884.1
167.5°	1136.4	1129.7	1116.0	1079.2	1046.6	999.5	959.6	927.9	920.0
170°	1125.4	1114.9	1109.8	1081.6	1052.8	1013.5	979.2	950.6	942.0
172.5°	1106.6	1105.3	1101.1	1075.6	1058.3	1025.9	997.3	971.1	965.5
175°	1084.2	1084.2	1087.2	1071.4	1065.6	1038.7	1018.5	1002.6	994.0
177.5°	1058.3	1059.1	1065.4	1064.6	1065.4	1050.0	1044.2	1029.3	1027.7
180°	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8

(END OF REPORT)