

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: P522552

Luminaire Tested: **SQW-F-075U-075D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522552
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

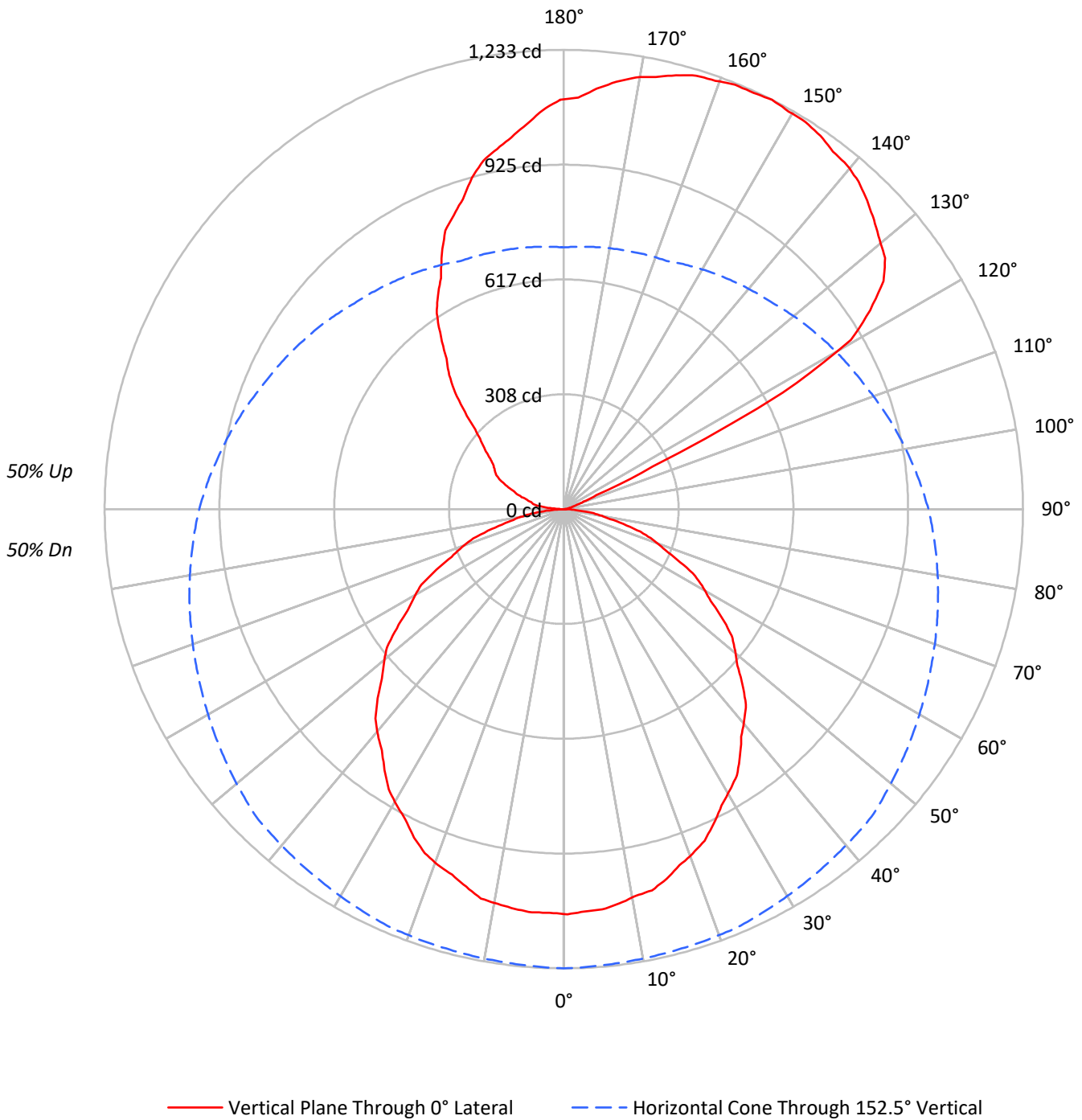
Lumens per Lamp: N/A
Luminaire Lumens: 6093.4 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 56.8
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





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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°	17572	17572	17572
5°	17506	17754	17605
10°	17321	17674	17623
15°	17232	17643	17506
20°	16972	17502	17414
25°	16668	17305	17270
30°	16354	17098	17003
35°	16058	16925	16744
40°	15723	16760	16543
45°	15372	16520	16285
50°	14981	16164	15958
55°	14508	15865	15519
60°	13931	15487	15090
65°	13154	14995	14483
70°	12288	14318	13785
75°	10867	13038	12526
80°	9047	11437	11055
85°	5891	8929	8540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	1.7
10°-20°	293.8	4.8
20°-30°	442.0	7.3
30°-40°	528.0	8.7
40°-50°	543.3	8.9
50°-60°	488.5	8.0
60°-70°	372.1	6.1
70°-80°	211.1	3.5
80°-90°	55.3	0.9
90°-100°	27.8	0.5
100°-110°	123.2	2.0
110°-120°	354.0	5.8
120°-130°	539.2	8.8
130°-140°	585.3	9.6
140°-150°	559.7	9.2
150°-160°	461.1	7.6
160°-170°	301.7	5.0
170°-180°	104.4	1.7
0°-30°	838.7	13.8
0°-40°	1366.8	22.4
0°-60°	2398.6	39.4
0°-90°	3037.2	49.8
90°-120°	504.9	8.3
90°-150°	2189.0	35.9
90°-180°	3056.0	50.2
0°-180°	6093.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1088	1088	1088	1088	1088	
5°	1080	1081	1095	1088	1086	102
15°	1031	1036	1056	1050	1047	290
25°	936	956	971	978	969	431
35°	815	836	859	864	850	509
45°	673	693	724	720	713	519
55°	515	536	564	560	551	460
65°	344	366	392	389	379	342
75°	174	188	209	207	201	186
85°	32	41	48	51	46	41
90°	0	0	0	0	0	1
95°	4	6	20	43	42	6
105°	28	75	141	97	104	32
115°	265	698	357	167	188	367
125°	1054	918	569	282	240	926
135°	1162	1052	754	467	372	897
145°	1216	1132	900	665	568	762
155°	1229	1178	1007	834	760	569
165°	1203	1172	1080	970	923	341
175°	1132	1135	1113	1064	1038	109
180°	1100	1100	1100	1100	1100	



TEST NUMBER: P522552

CATALOG NUMBER: SQW-F-075U-075D-93050-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3
2.5°	1081.7	1084.9	1086.6	1082.9	1098.1	1085.3	1089.9	1086.6	1084.2
5°	1080.1	1079.1	1081.1	1077.4	1095.4	1081.4	1088.3	1083.2	1086.2
7.5°	1069.6	1067.6	1071.2	1071.8	1085.4	1075.2	1079.2	1077.9	1081.5
10°	1056.5	1058.5	1064.7	1066.0	1078.0	1067.0	1071.9	1072.9	1074.9
12.5°	1050.7	1047.1	1054.0	1057.8	1070.6	1057.2	1066.1	1065.6	1069.2
15°	1030.9	1029.9	1036.0	1039.4	1055.5	1043.4	1050.3	1050.3	1047.3
17.5°	1005.9	1005.9	1014.1	1015.7	1032.5	1023.7	1030.5	1027.4	1026.6
20°	987.8	987.8	1000.1	998.5	1018.6	1010.6	1016.5	1009.4	1013.5
22.5°	967.3	968.1	982.9	980.5	999.7	994.9	1001.8	991.4	996.2
25°	935.6	938.6	956.1	954.4	971.4	966.4	977.6	965.4	969.4
27.5°	901.8	906.0	923.5	923.2	940.1	936.5	949.3	935.2	935.8
30°	877.2	882.2	899.7	901.1	917.1	911.1	926.3	913.0	912.0
32.5°	853.4	857.6	875.1	878.1	894.2	890.6	902.6	889.2	887.4
35°	814.7	819.7	836.2	841.7	858.7	853.7	863.8	851.5	849.5
37.5°	774.7	777.9	795.4	800.2	820.6	816.4	822.9	811.0	811.2
40°	746.0	750.0	767.5	773.1	795.2	790.2	794.2	783.9	784.9
42.5°	717.3	721.3	738.0	746.1	766.5	761.5	764.6	756.0	756.2
45°	673.2	676.2	692.7	703.4	723.5	718.4	720.4	712.2	713.2
47.5°	627.5	629.7	644.8	659.7	676.3	674.1	674.5	664.3	667.3
50°	596.4	599.4	612.8	628.5	643.5	644.5	642.5	632.3	635.3
52.5°	564.4	566.6	582.5	595.7	611.6	613.4	609.7	600.3	602.5
55°	515.4	517.4	535.9	549.6	563.6	564.6	560.5	553.3	551.3
57.5°	465.0	468.0	485.3	500.2	514.0	512.2	510.1	501.7	500.1
60°	431.4	434.4	450.9	466.5	479.6	478.6	476.5	467.3	467.3
62.5°	397.0	400.8	418.1	432.1	445.1	444.9	442.1	435.3	433.7
65°	344.3	348.3	365.8	378.4	392.5	392.5	389.4	381.2	379.1
67.5°	293.9	297.9	312.3	325.4	339.4	338.2	335.3	330.1	327.3
70°	260.3	264.3	274.6	289.3	303.3	301.3	299.2	294.0	292.0
72.5°	224.2	229.0	239.4	252.4	265.6	265.2	263.1	260.4	256.0
75°	174.2	177.2	188.5	200.0	209.0	210.0	207.0	205.9	200.8
77.5°	126.9	130.7	140.0	150.0	156.6	159.8	158.0	155.5	151.7
80°	97.3	100.4	109.6	118.0	123.0	127.0	126.0	121.9	118.9
82.5°	69.5	72.5	80.1	87.6	91.8	95.8	94.9	92.3	87.7
85°	31.8	33.8	41.0	46.2	48.2	53.2	51.2	49.1	46.1
87.5°	4.9	5.7	10.7	15.6	14.8	19.6	17.2	13.9	10.7
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	2.5	4.1	15.3	17.2	15.6	14.8
95°	4.1	4.1	6.1	19.5	19.5	31.5	43.0	42.0	42.0
97.5°	9.2	10.2	14.3	59.3	44.3	43.1	61.5	67.6	68.2
100°	13.3	14.3	22.5	96.6	65.6	55.6	65.6	80.0	83.0
102.5°	18.2	20.0	35.7	152.6	92.6	66.6	77.1	87.4	90.4
105°	27.7	30.7	74.8	255.6	141.4	88.3	97.3	102.5	103.5
107.5°	41.6	52.8	204.7	359.6	200.6	116.9	122.1	125.7	126.9
110°	56.4	80.4	355.6	422.3	244.9	138.7	135.3	144.4	142.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	94.9	165.4	522.0	473.7	289.2	164.5	147.6	162.5	163.8
115°	265.4	455.8	697.8	547.0	356.6	209.3	167.0	181.5	187.5
117.5°	666.1	792.5	790.5	614.7	421.4	262.1	190.4	197.3	204.1
120°	895.6	914.6	837.2	660.6	463.2	299.9	210.1	207.1	213.1
122.5°	980.9	965.4	872.4	700.8	505.8	339.3	235.5	217.8	223.0
125°	1054.4	1024.4	918.2	758.1	568.7	397.4	281.8	240.8	239.8
127.5°	1095.2	1063.8	962.8	807.9	626.5	457.8	334.5	273.4	264.2
130°	1114.9	1085.8	994.0	838.4	665.0	498.7	373.0	302.0	287.9
132.5°	1138.7	1107.2	1016.1	869.7	701.9	537.2	411.5	336.4	319.9
135°	1162.0	1133.0	1052.4	910.5	754.2	593.9	467.3	393.0	372.0
137.5°	1182.9	1156.3	1085.6	942.6	801.3	649.6	526.3	454.0	428.3
140°	1196.9	1167.8	1099.5	967.3	830.0	684.7	565.6	493.5	473.4
142.5°	1201.8	1184.0	1114.3	988.0	862.0	718.3	605.0	530.4	512.0
145°	1216.3	1204.3	1132.3	1012.9	899.7	768.5	665.0	587.7	567.7
147.5°	1225.8	1207.7	1148.9	1039.8	936.6	813.4	719.6	645.4	626.7
150°	1226.6	1212.6	1162.0	1056.4	961.2	846.0	753.2	683.1	666.1
152.5°	1233.2	1215.9	1168.6	1070.4	979.2	873.6	786.8	721.6	703.0
155°	1228.6	1216.6	1178.4	1088.5	1007.3	909.1	834.1	776.4	760.3
157.5°	1228.6	1213.8	1179.7	1102.5	1034.4	948.2	878.4	825.0	813.0
160°	1220.4	1214.4	1180.5	1112.4	1048.3	970.1	907.9	859.4	843.3
162.5°	1217.2	1207.1	1182.1	1119.1	1060.6	988.0	933.3	887.3	875.3
165°	1203.0	1194.0	1172.3	1122.1	1080.1	1019.9	970.4	929.3	923.3
167.5°	1186.8	1179.8	1165.5	1127.0	1093.0	1043.9	1002.2	969.0	960.8
170°	1175.4	1164.3	1159.0	1129.6	1099.5	1058.4	1022.7	992.8	983.7
172.5°	1155.7	1154.3	1149.9	1123.3	1105.3	1071.4	1041.5	1014.1	1008.3
175°	1132.3	1132.3	1135.4	1118.9	1112.8	1084.8	1063.7	1047.1	1038.0
177.5°	1105.3	1106.1	1112.6	1111.8	1112.6	1096.6	1090.5	1074.9	1073.3
180°	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5

(END OF REPORT)