

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: P522550

Luminaire Tested: **SQW-F-075U-075D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522550
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

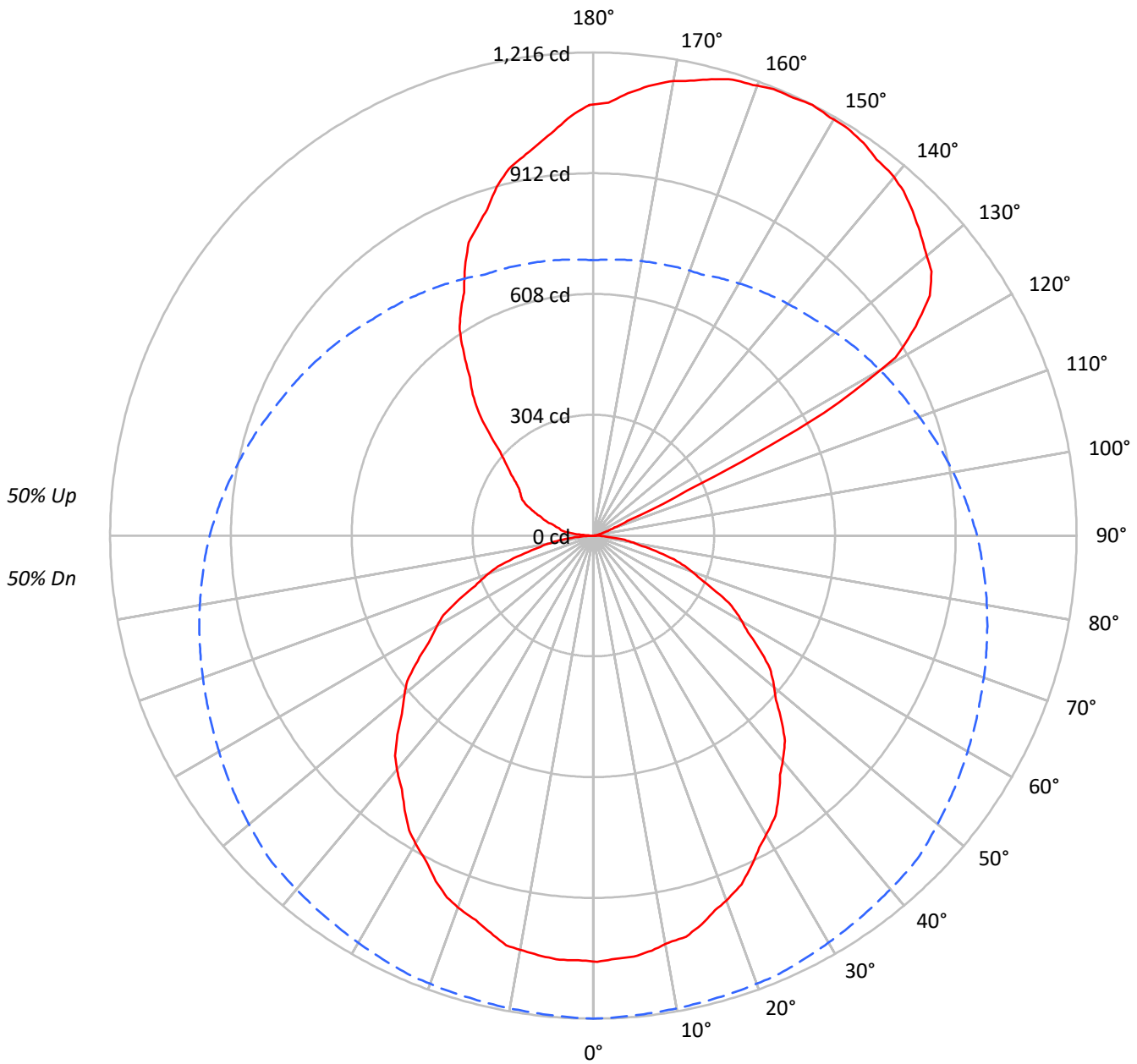
Lumens per Lamp: N/A
Luminaire Lumens: 6009.7 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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



— Vertical Plane Through 0° Lateral - - - Horizontal Cone Through 152.5° Vertical



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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°	17329	17329	17329
5°	17264	17511	17363
10°	17084	17431	17382
15°	16995	17401	17265
20°	16740	17261	17173
25°	16438	17069	17033
30°	16129	16863	16770
35°	15837	16693	16513
40°	15506	16531	16318
45°	15162	16292	16061
50°	14775	15943	15739
55°	14311	15648	15305
60°	13740	15274	14883
65°	12974	14789	14285
70°	12118	14120	13596
75°	10717	12863	12358
80°	8926	11278	10897
85°	5798	8800	8429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	1.7
10°-20°	289.8	4.8
20°-30°	436.0	7.3
30°-40°	520.8	8.7
40°-50°	535.9	8.9
50°-60°	481.8	8.0
60°-70°	367.0	6.1
70°-80°	208.2	3.5
80°-90°	54.5	0.9
90°-100°	27.4	0.5
100°-110°	121.5	2.0
110°-120°	349.1	5.8
120°-130°	531.8	8.8
130°-140°	577.2	9.6
140°-150°	552.0	9.2
150°-160°	454.7	7.6
160°-170°	297.6	5.0
170°-180°	103.0	1.7
0°-30°	827.2	13.8
0°-40°	1348.0	22.4
0°-60°	2365.6	39.4
0°-90°	2995.4	49.8
90°-120°	498.0	8.3
90°-150°	2158.9	35.9
90°-180°	3014.0	50.2
0°-180°	6009.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1073	1073	1073	1073	1073	
5°	1065	1066	1080	1073	1071	101
15°	1017	1022	1041	1036	1033	286
25°	923	943	958	964	956	425
35°	804	825	847	852	838	502
45°	664	683	714	710	703	512
55°	508	529	556	553	544	454
65°	340	361	387	384	374	337
75°	172	186	206	204	198	183
85°	31	40	48	50	46	41
90°	0	0	0	0	0	1
95°	4	6	19	42	41	5
105°	27	74	140	96	102	32
115°	262	688	352	165	185	362
125°	1040	906	561	278	236	913
135°	1146	1038	744	461	367	885
145°	1200	1117	887	656	560	752
155°	1212	1162	994	823	750	561
165°	1186	1156	1065	957	911	337
175°	1117	1120	1098	1049	1024	108
180°	1084	1084	1084	1084	1084	



TEST NUMBER: P522550

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1073.3	1073.3	1073.3	1073.3	1073.3	1073.3	1073.3	1073.3	1073.3
2.5°	1066.8	1070.0	1071.7	1068.0	1083.0	1070.4	1074.9	1071.6	1069.3
5°	1065.2	1064.2	1066.2	1062.6	1080.4	1066.5	1073.3	1068.3	1071.3
7.5°	1054.9	1052.9	1056.5	1057.0	1070.5	1060.4	1064.4	1063.1	1066.6
10°	1042.0	1043.9	1050.1	1051.3	1063.2	1052.3	1057.1	1058.2	1060.2
12.5°	1036.3	1032.8	1039.5	1043.3	1055.9	1042.7	1051.5	1050.9	1054.5
15°	1016.7	1015.7	1021.8	1025.1	1041.0	1029.1	1035.9	1035.8	1032.9
17.5°	992.0	992.0	1000.1	1001.7	1018.3	1009.6	1016.3	1013.3	1012.5
20°	974.3	974.3	986.4	984.8	1004.6	996.7	1002.6	995.6	999.5
22.5°	954.0	954.8	969.4	967.0	986.0	981.2	988.0	977.8	982.5
25°	922.7	925.7	942.9	941.3	958.1	953.1	964.2	952.1	956.1
27.5°	889.4	893.5	910.8	910.6	927.2	923.6	936.3	922.3	922.9
30°	865.1	870.0	887.3	888.7	904.5	898.6	913.6	900.5	899.5
32.5°	841.7	845.8	863.1	866.1	881.9	878.3	890.2	877.0	875.2
35°	803.5	808.4	824.7	830.1	846.9	842.0	852.0	839.8	837.8
37.5°	764.0	767.2	784.5	789.2	809.3	805.2	811.5	799.8	800.0
40°	735.7	739.7	757.0	762.5	784.3	779.3	783.2	773.2	774.2
42.5°	707.4	711.4	727.9	735.8	756.0	751.0	754.1	745.7	745.9
45°	664.0	667.0	683.2	693.7	713.5	708.6	710.5	702.4	703.4
47.5°	618.9	621.1	635.9	650.6	667.0	664.8	665.2	655.2	658.1
50°	588.2	591.2	604.4	619.9	634.7	635.7	633.7	623.6	626.6
52.5°	556.7	558.8	574.4	587.5	603.2	604.9	601.3	592.1	594.3
55°	508.4	510.3	528.6	542.0	555.9	556.8	552.8	545.7	543.7
57.5°	458.6	461.6	478.6	493.3	506.9	505.2	503.1	494.8	493.2
60°	425.5	428.4	444.7	460.1	473.0	472.0	469.9	460.9	460.9
62.5°	391.5	395.3	412.3	426.2	439.0	438.8	436.0	429.3	427.7
65°	339.6	343.5	360.8	373.2	387.1	387.1	384.0	375.9	373.9
67.5°	289.9	293.8	308.0	320.9	334.7	333.5	330.7	325.6	322.8
70°	256.7	260.7	270.9	285.3	299.1	297.2	295.1	290.0	288.0
72.5°	221.1	225.9	236.1	248.9	262.0	261.6	259.5	256.8	252.5
75°	171.8	174.8	186.0	197.3	206.2	207.2	204.1	203.0	198.1
77.5°	125.1	128.9	138.1	147.9	154.4	157.6	155.8	153.3	149.6
80°	96.0	99.0	108.1	116.3	121.3	125.2	124.3	120.2	117.2
82.5°	68.5	71.5	79.0	86.4	90.6	94.5	93.6	91.1	86.5
85°	31.3	33.3	40.4	45.5	47.5	52.4	50.5	48.4	45.5
87.5°	4.9	5.6	10.5	15.3	14.6	19.3	17.0	13.7	10.5
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	4.0	15.1	17.0	15.3	14.6
95°	4.0	4.0	6.1	19.2	19.2	31.1	42.4	41.4	41.4
97.5°	9.1	10.1	14.1	58.5	43.7	42.5	60.6	66.7	67.3
100°	13.1	14.1	22.2	95.3	64.7	54.8	64.7	78.9	81.9
102.5°	18.0	19.8	35.2	150.5	91.4	65.7	76.0	86.2	89.1
105°	27.3	30.3	73.8	252.1	139.5	87.1	96.0	101.1	102.1
107.5°	41.0	52.1	201.9	354.6	197.9	115.3	120.5	123.9	125.1
110°	55.6	79.3	350.7	416.5	241.5	136.8	133.4	142.5	140.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	93.6	163.2	514.8	467.2	285.2	162.3	145.5	160.3	161.5
115°	261.8	449.5	688.2	539.5	351.7	206.4	164.7	179.0	184.9
117.5°	656.9	781.6	779.6	606.3	415.6	258.5	187.8	194.6	201.3
120°	883.3	902.1	825.7	651.5	456.8	295.7	207.2	204.3	210.2
122.5°	967.4	952.2	860.5	691.2	498.9	334.6	232.2	214.8	219.9
125°	1040.0	1010.3	905.5	747.7	560.9	391.9	277.9	237.5	236.5
127.5°	1080.2	1049.1	949.6	796.8	617.9	451.5	329.9	269.6	260.5
130°	1099.6	1070.9	980.3	826.9	655.9	491.9	367.9	297.8	284.0
132.5°	1123.0	1092.0	1002.2	857.7	692.3	529.8	405.9	331.7	315.5
135°	1146.1	1117.4	1037.9	898.0	743.8	585.7	460.9	387.6	366.9
137.5°	1166.7	1140.4	1070.7	929.7	790.3	640.7	519.1	447.7	422.4
140°	1180.4	1151.8	1084.4	954.0	818.6	675.3	557.9	486.7	466.9
142.5°	1185.3	1167.7	1099.0	974.5	850.2	708.4	596.7	523.1	504.9
145°	1199.6	1187.8	1116.8	999.0	887.3	757.9	655.9	579.7	559.9
147.5°	1208.9	1191.1	1133.1	1025.5	923.7	802.2	709.7	636.5	618.1
150°	1209.7	1195.9	1146.1	1041.9	948.0	834.3	742.8	673.7	656.9
152.5°	1216.2	1199.2	1152.5	1055.7	965.8	861.6	776.0	711.7	693.3
155°	1211.8	1199.9	1162.2	1073.5	993.5	896.6	822.7	765.7	749.9
157.5°	1211.8	1197.1	1163.5	1087.3	1020.1	935.2	866.3	813.7	801.8
160°	1203.7	1197.7	1164.3	1097.1	1033.9	956.8	895.4	847.6	831.8
162.5°	1200.4	1190.6	1165.9	1103.7	1046.0	974.5	920.5	875.1	863.3
165°	1186.5	1177.6	1156.2	1106.7	1065.2	1005.9	957.1	916.5	910.6
167.5°	1170.5	1163.6	1149.5	1111.5	1078.0	1029.5	988.4	955.7	947.6
170°	1159.2	1148.3	1143.0	1114.1	1084.4	1043.9	1008.6	979.1	970.2
172.5°	1139.8	1138.4	1134.1	1107.9	1090.1	1056.7	1027.2	1000.2	994.5
175°	1116.8	1116.8	1119.8	1103.5	1097.6	1069.9	1049.0	1032.7	1023.8
177.5°	1090.1	1090.9	1097.4	1096.6	1097.4	1081.5	1075.5	1060.1	1058.5
180°	1084.4	1084.4	1084.4	1084.4	1084.4	1084.4	1084.4	1084.4	1084.4

(END OF REPORT)