

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: P522545

Luminaire Tested: **SQW-F-075U-050D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522545
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-050D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 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

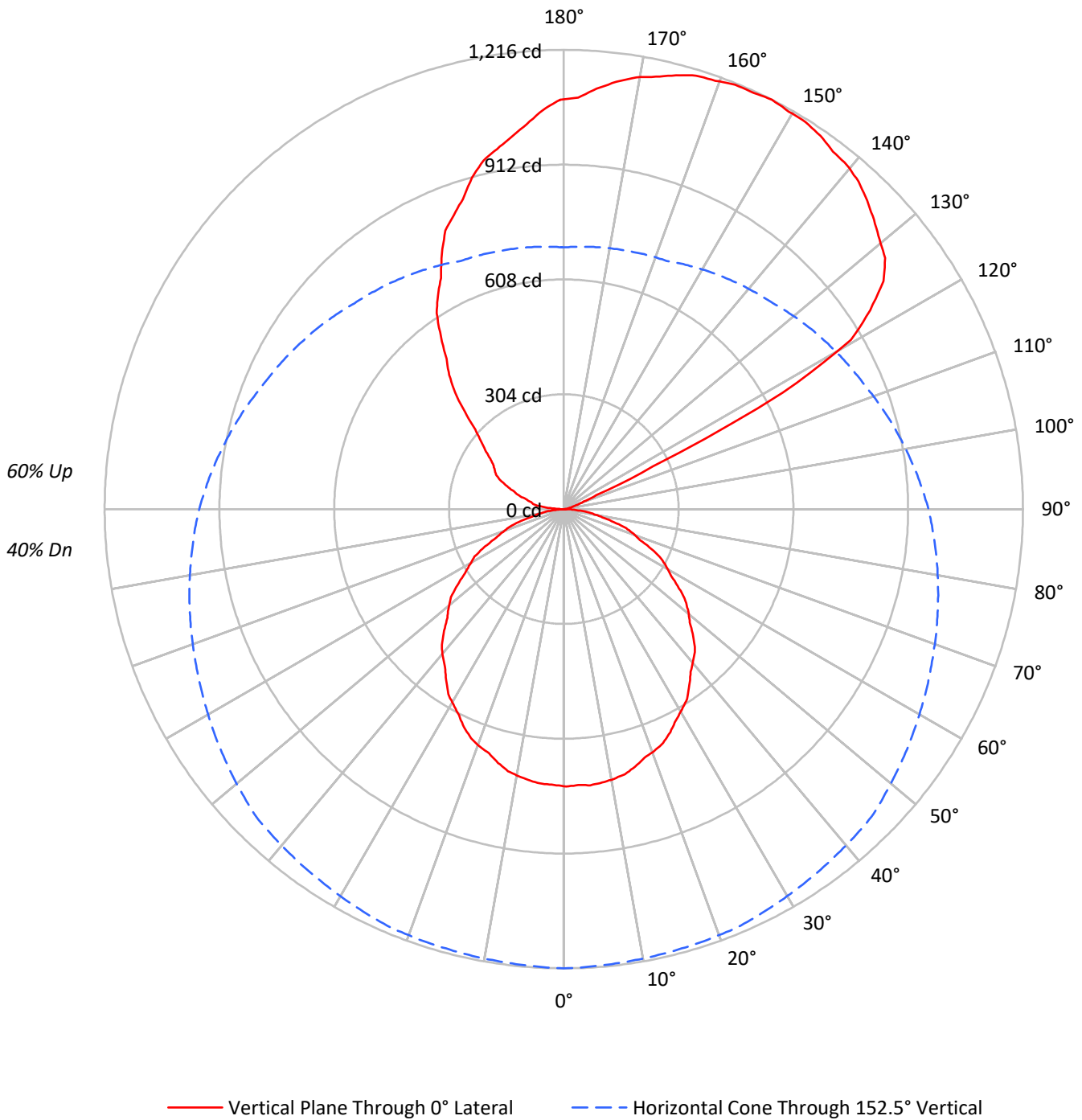
Lumens per Lamp: N/A
Luminaire Lumens: 5059.5 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 46.7
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	50	30	10	0	
RCR																						
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40				
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	42	41	40	34				
2	87	80	73	68	79	73	67	63	60	56	53	48	45	43	37	35	33	28				
3	79	70	63	57	72	64	58	52	52	48	44	42	39	36	32	30	28	24				
4	72	62	54	48	66	56	50	44	46	41	37	37	34	31	29	26	24	20				
5	66	55	47	41	60	50	43	38	41	36	32	33	30	27	26	23	21	18				
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	21	18	15				
7	56	44	36	31	51	41	34	29	34	28	24	27	23	20	21	18	16	14				
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	20	17	15	12				
9	49	36	29	24	44	34	27	22	28	23	19	23	19	16	18	15	13	11				
10	45	33	26	21	41	31	24	20	26	21	17	21	17	15	17	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11862	11862	11862
5°	11908	11958	11827
10°	11914	11963	11765
15°	11826	11943	11606
20°	11756	11808	11460
25°	11667	11667	11325
30°	11494	11587	11080
35°	11294	11434	10837
40°	11120	11247	10629
45°	10962	11077	10316
50°	10738	10891	10078
55°	10441	10640	9728
60°	10117	10411	9300
65°	9769	10155	8840
70°	9257	9541	8110
75°	8571	8640	7311
80°	7615	7708	5923
85°	5984	5798	4113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	1.4
10°-20°	198.6	3.9
20°-30°	298.7	5.9
30°-40°	356.5	7.0
40°-50°	366.1	7.2
50°-60°	329.0	6.5
60°-70°	249.5	4.9
70°-80°	140.7	2.8
80°-90°	36.5	0.7
90°-100°	27.4	0.5
100°-110°	121.5	2.4
110°-120°	349.1	6.9
120°-130°	531.8	10.5
130°-140°	577.2	11.4
140°-150°	552.0	10.9
150°-160°	454.7	9.0
160°-170°	297.6	5.9
170°-180°	103.0	2.0
0°-30°	566.9	11.2
0°-40°	923.4	18.3
0°-60°	1618.5	32.0
0°-90°	2045.2	40.4
90°-120°	498.0	9.8
90°-150°	2158.9	42.7
90°-180°	3014.0	59.6
0°-180°	5059.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	735	735	735	735	735	
5°	735	734	738	733	730	70
15°	708	710	714	698	694	200
25°	655	657	655	646	636	301
35°	573	582	580	565	550	359
45°	480	486	485	467	452	370
55°	371	378	378	360	346	331
65°	256	263	266	243	231	252
75°	137	140	138	125	117	146
85°	32	35	31	26	22	38
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7
2.5°	731.5	734.7	733.9	733.3	740.4	734.1	734.7	733.9	730.7
5°	734.7	732.8	733.7	732.8	737.8	731.8	732.7	729.7	729.7
7.5°	731.5	728.3	729.3	728.6	732.9	726.2	725.0	721.3	724.8
10°	726.7	722.7	723.6	723.8	729.7	719.8	718.6	715.6	717.6
12.5°	720.2	717.8	718.0	716.5	724.8	711.8	711.3	709.1	709.5
15°	707.5	710.4	710.5	703.7	714.5	698.7	698.4	698.3	694.3
17.5°	692.3	696.4	700.0	691.2	698.6	685.3	685.0	681.5	676.7
20°	684.2	685.2	690.3	682.3	687.2	676.4	676.1	667.0	667.0
22.5°	672.9	673.1	679.0	670.2	675.1	664.2	664.8	654.1	654.9
25°	654.9	653.9	656.9	650.9	654.9	645.0	645.8	634.7	635.7
27.5°	632.7	633.8	638.5	629.4	635.3	623.2	623.6	613.4	612.0
30°	616.5	618.5	625.6	615.6	621.5	608.7	607.4	597.2	594.3
32.5°	599.5	601.5	608.6	601.0	606.2	594.1	591.2	579.5	577.3
35°	573.0	575.0	582.1	578.1	580.1	568.3	564.9	552.8	549.8
37.5°	546.2	548.1	554.0	551.2	553.0	540.6	535.8	525.1	522.9
40°	527.6	529.5	534.6	532.6	533.6	522.7	516.4	507.3	504.3
42.5°	509.8	511.0	515.2	511.6	514.2	504.1	497.0	487.8	483.3
45°	480.1	480.1	486.1	482.1	485.1	475.2	466.9	456.7	451.8
47.5°	449.3	447.6	454.6	453.2	454.6	443.9	435.6	425.0	421.4
50°	427.5	426.5	433.6	434.6	433.6	423.7	415.4	403.2	401.2
52.5°	404.1	405.4	410.9	411.9	411.7	401.9	392.7	381.4	379.4
55°	370.9	372.9	378.0	379.0	378.0	369.1	359.8	347.6	345.6
57.5°	335.9	340.7	345.0	346.1	346.7	337.2	325.6	316.4	312.3
60°	313.3	317.3	322.4	323.4	322.4	314.5	302.2	293.0	288.0
62.5°	290.7	293.0	298.1	300.7	298.1	290.2	277.9	269.6	267.8
65°	255.7	257.7	262.8	264.8	265.8	254.9	242.6	235.4	231.4
67.5°	217.9	220.3	223.1	226.0	227.2	215.7	205.6	198.0	193.6
70°	196.1	196.1	198.1	200.2	202.1	192.2	182.9	173.8	171.8
72.5°	172.6	172.6	175.4	176.7	177.1	168.0	159.5	151.2	150.8
75°	137.4	137.4	139.5	140.4	138.5	132.5	125.3	118.2	117.2
77.5°	104.5	103.9	105.7	106.5	105.5	98.8	91.8	86.9	85.5
80°	81.9	82.9	83.9	83.9	82.9	76.9	70.7	66.6	63.7
82.5°	60.8	61.8	63.7	63.6	61.0	57.5	52.1	47.3	46.7
85°	32.3	32.3	35.4	34.3	31.3	29.4	26.3	22.2	22.2
87.5°	8.1	8.9	10.5	12.8	8.9	9.7	5.7	3.2	2.4
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	2.5	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)