

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: P511740

Luminaire Tested: **SQW-F-025U-100D-930-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511740  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-15,  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-025U-100D-930-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

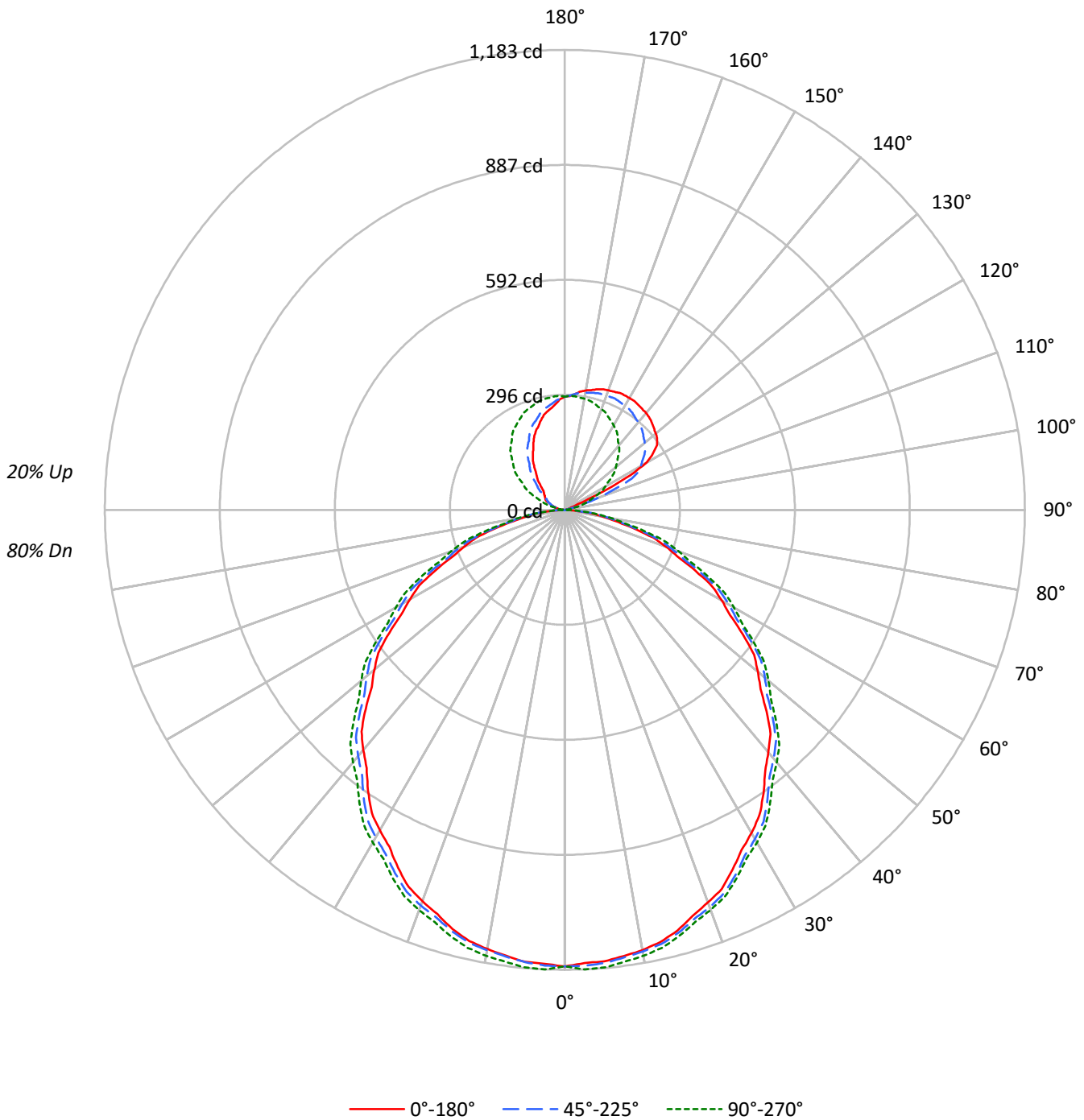
Lumens per Lamp: N/A  
Luminaire Lumens: 4005.2 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 44  
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84	80				
1	104	100	96	92	100	96	92	89	88	85	82	81	78	76	74	72	71	67				
2	95	87	81	75	91	84	78	73	77	72	68	71	67	64	65	62	59	56				
3	87	77	69	63	83	74	66	61	68	62	57	62	58	54	57	54	50	47				
4	79	68	59	53	76	65	57	52	60	54	49	56	50	46	51	47	43	41				
5	73	61	52	46	69	58	50	44	54	47	42	50	44	40	46	41	38	35				
6	67	54	46	40	64	52	44	39	49	42	37	45	39	35	42	37	33	31				
7	62	49	41	35	59	48	40	34	44	37	33	41	35	31	38	33	29	27				
8	58	45	37	31	55	43	36	30	40	34	29	38	32	28	35	30	26	24				
9	54	41	33	28	52	40	32	27	37	31	26	35	29	25	32	27	24	22				
10	51	38	30	25	48	37	29	25	34	28	24	32	27	23	30	25	22	20				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	37924	37924	37924
5°	37783	38299	37835
10°	37699	38194	37620
15°	37453	37958	37319
20°	36942	37650	36804
25°	36375	37255	36175
30°	35785	36851	35486
35°	35104	36295	34762
40°	34322	35730	33985
45°	33479	35077	33077
50°	32554	34352	32117
55°	31471	33391	31021
60°	30090	32402	29683
65°	28310	31106	27943
70°	26049	29354	25747
75°	22620	26588	23119
80°	18187	22036	19228
85°	10004	15006	12968



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.0	2.8
10°-20°	316.5	7.9
20°-30°	474.4	11.8
30°-40°	564.1	14.1
40°-50°	577.5	14.4
50°-60°	514.8	12.9
60°-70°	383.7	9.6
70°-80°	209.7	5.2
80°-90°	49.3	1.2
90°-100°	7.1	0.2
100°-110°	32.6	0.8
110°-120°	94.6	2.4
120°-130°	142.8	3.6
130°-140°	152.9	3.8
140°-150°	146.1	3.6
150°-160°	121.0	3.0
160°-170°	79.5	2.0
170°-180°	27.6	0.7
0°-30°	901.9	22.5
0°-40°	1466.0	36.6
0°-60°	2558.2	63.9
0°-90°	3200.9	79.9
90°-120°	134.4	3.4
90°-150°	576.3	14.4
90°-180°	804.0	20.1
0°-180°	4005.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1174	1174	1174	1174	1174	
5°	1166	1170	1182	1168	1167	111
15°	1120	1127	1135	1122	1116	315
25°	1021	1038	1046	1032	1015	470
35°	890	909	921	902	882	556
45°	733	755	768	747	724	565
55°	559	581	593	576	551	499
65°	370	389	407	386	366	367
75°	181	196	213	197	185	194
85°	27	37	40	41	35	40
90°	1	1	0	1	2	1
95°	2	2	6	10	8	2
105°	9	22	38	25	26	10
115°	75	189	93	46	50	100
125°	289	250	147	69	63	253
135°	317	283	194	115	87	245
145°	330	304	236	166	138	207
155°	332	313	264	215	191	153
165°	321	311	285	253	238	91
175°	299	299	293	281	273	29
180°	291	291	291	291	291	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4
2.5°	1166.7	1172.3	1173.7	1172.7	1183.3	1173.3	1173.1	1172.4	1168.6
5°	1165.6	1167.2	1170.4	1168.3	1181.5	1168.3	1168.0	1166.4	1167.2
7.5°	1158.0	1159.5	1161.3	1159.2	1172.4	1158.9	1158.8	1156.1	1156.9
10°	1149.7	1151.3	1153.7	1151.6	1164.8	1150.0	1150.5	1146.5	1147.3
12.5°	1138.3	1139.8	1144.1	1141.4	1154.0	1139.9	1140.3	1135.7	1135.9
15°	1120.3	1122.6	1126.6	1122.2	1135.4	1121.4	1121.9	1117.1	1116.3
17.5°	1094.7	1099.4	1104.2	1100.4	1112.2	1098.8	1099.5	1092.1	1090.1
20°	1075.0	1079.6	1087.7	1083.2	1095.6	1081.6	1082.9	1071.8	1071.0
22.5°	1055.3	1058.7	1068.6	1064.1	1076.6	1062.6	1063.2	1050.2	1050.0
25°	1020.9	1025.6	1037.6	1033.9	1045.6	1031.6	1032.0	1017.7	1015.3
27.5°	985.8	990.6	1002.8	999.2	1011.2	996.9	997.8	981.8	977.2
30°	959.7	965.1	978.0	975.1	988.3	972.8	972.4	956.4	951.7
32.5°	931.7	938.4	951.3	949.6	961.6	946.7	945.1	929.0	924.4
35°	890.5	897.5	908.8	909.8	920.7	906.7	902.4	887.2	881.8
37.5°	846.0	852.5	864.7	866.9	877.5	862.9	856.8	843.0	836.8
40°	814.2	822.0	834.8	838.2	847.6	833.6	826.9	812.4	806.2
42.5°	783.0	790.8	804.3	809.6	816.4	803.0	795.1	781.2	773.8
45°	733.1	740.9	755.3	762.6	768.1	755.6	746.6	732.1	724.3
47.5°	682.4	690.9	705.6	714.6	718.1	706.8	698.4	682.3	673.6
50°	648.0	656.6	671.9	681.4	683.8	673.7	664.7	648.6	639.3
52.5°	613.0	620.3	635.6	646.4	647.5	639.3	629.7	613.6	604.9
55°	559.0	566.7	581.2	593.9	593.1	587.7	575.6	559.6	551.0
57.5°	503.5	509.7	524.8	538.3	538.6	532.4	520.8	504.9	496.5
60°	465.9	472.1	486.6	500.2	501.7	495.5	482.6	467.3	459.6
62.5°	428.4	434.0	447.8	462.6	464.2	458.0	444.5	429.8	422.0
65°	370.5	375.2	388.8	404.0	407.1	400.1	385.6	372.7	365.7
67.5°	313.4	317.9	330.6	345.6	349.7	341.8	328.7	316.5	309.6
70°	275.9	279.8	291.8	306.2	310.9	302.3	291.8	278.9	272.7
72.5°	237.7	241.6	253.6	267.4	271.4	263.5	253.6	242.1	239.6
75°	181.3	185.2	195.6	210.0	213.1	206.1	197.2	186.8	185.3
77.5°	130.9	133.4	142.8	152.7	154.7	150.5	145.2	135.9	135.2
80°	97.8	100.9	109.7	117.7	118.5	116.1	112.1	104.1	103.4
82.5°	68.5	71.0	78.6	85.8	84.8	84.9	82.2	74.9	74.7
85°	27.0	29.4	37.4	43.7	40.5	42.9	41.3	35.8	35.0
87.5°	2.7	3.3	6.5	12.7	11.4	13.3	11.6	8.4	8.6
90°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	1.6
92.5°	0.8	1.4	0.8	1.3	1.3	3.2	2.7	2.1	2.2
95°	2.4	2.4	2.4	5.6	5.6	8.0	9.6	8.8	8.0
97.5°	3.5	3.5	4.6	15.8	12.5	10.6	14.9	15.4	15.4
100°	4.8	4.8	7.2	24.7	17.6	14.5	16.8	19.2	19.2
102.5°	6.1	6.7	11.1	38.6	24.7	17.8	19.4	21.2	21.8
105°	8.8	9.6	21.6	65.9	37.7	24.4	24.9	25.7	26.5
107.5°	13.1	16.3	54.4	94.1	53.4	31.4	33.2	31.7	31.7
110°	17.6	23.9	92.2	112.0	64.9	36.7	37.7	36.9	36.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	27.9	46.7	137.7	126.6	76.5	43.2	41.5	43.3	42.0
115°	74.6	121.6	189.2	147.1	93.0	53.8	46.5	49.7	50.5
117.5°	177.6	212.6	214.5	164.2	110.0	65.6	50.5	54.2	55.8
120°	243.7	249.2	226.1	175.1	120.2	74.0	53.7	56.1	57.7
122.5°	268.7	263.5	236.3	185.4	130.5	83.6	58.8	58.7	60.3
125°	289.4	278.4	250.1	200.8	146.7	98.9	68.9	62.5	63.3
127.5°	299.6	288.7	261.5	213.5	161.9	115.1	81.6	68.0	67.3
130°	305.4	294.4	268.5	222.5	171.5	125.3	90.6	73.7	70.5
132.5°	310.6	300.2	275.0	229.6	181.2	134.9	100.2	80.7	76.3
135°	316.6	306.5	283.0	240.2	194.0	150.1	114.6	93.6	87.4
137.5°	322.1	312.7	290.3	249.8	207.5	163.7	129.2	108.9	102.0
140°	324.7	315.3	294.2	255.6	216.4	173.3	139.5	118.5	112.2
142.5°	327.2	318.4	298.0	261.4	224.1	182.9	149.7	128.8	122.5
145°	329.5	321.6	303.8	269.4	235.7	196.5	165.9	144.2	137.9
147.5°	331.9	323.6	307.5	276.2	245.1	209.9	180.5	159.5	153.4
150°	331.9	324.8	309.4	280.7	250.9	218.8	190.8	169.8	164.3
152.5°	332.5	324.8	311.4	284.6	257.3	227.1	200.4	180.1	175.2
155°	331.9	324.8	313.4	289.6	264.5	237.9	214.8	195.5	190.8
157.5°	329.0	324.4	313.4	292.6	271.9	247.5	227.3	212.1	205.5
160°	327.1	323.1	313.4	294.6	275.8	253.8	235.7	221.1	216.4
162.5°	325.1	321.2	312.8	296.5	279.6	259.5	242.7	228.9	225.4
165°	320.7	317.5	311.0	297.9	284.6	267.3	253.3	241.2	238.1
167.5°	315.7	313.5	308.1	298.8	288.3	274.8	262.6	253.2	249.6
170°	311.8	310.3	306.2	298.8	290.2	279.2	267.7	259.7	257.3
172.5°	306.7	305.8	303.7	297.6	291.5	282.4	273.5	266.1	263.7
175°	299.0	299.0	299.0	296.5	293.4	287.1	280.6	274.9	273.4
177.5°	292.9	293.5	294.2	293.6	293.6	290.4	287.1	284.0	284.6
180°	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0

(END OF REPORT)