

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: P511800

Luminaire Tested: **SQW-F-075U-100D-930-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511800
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-17,
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-075U-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

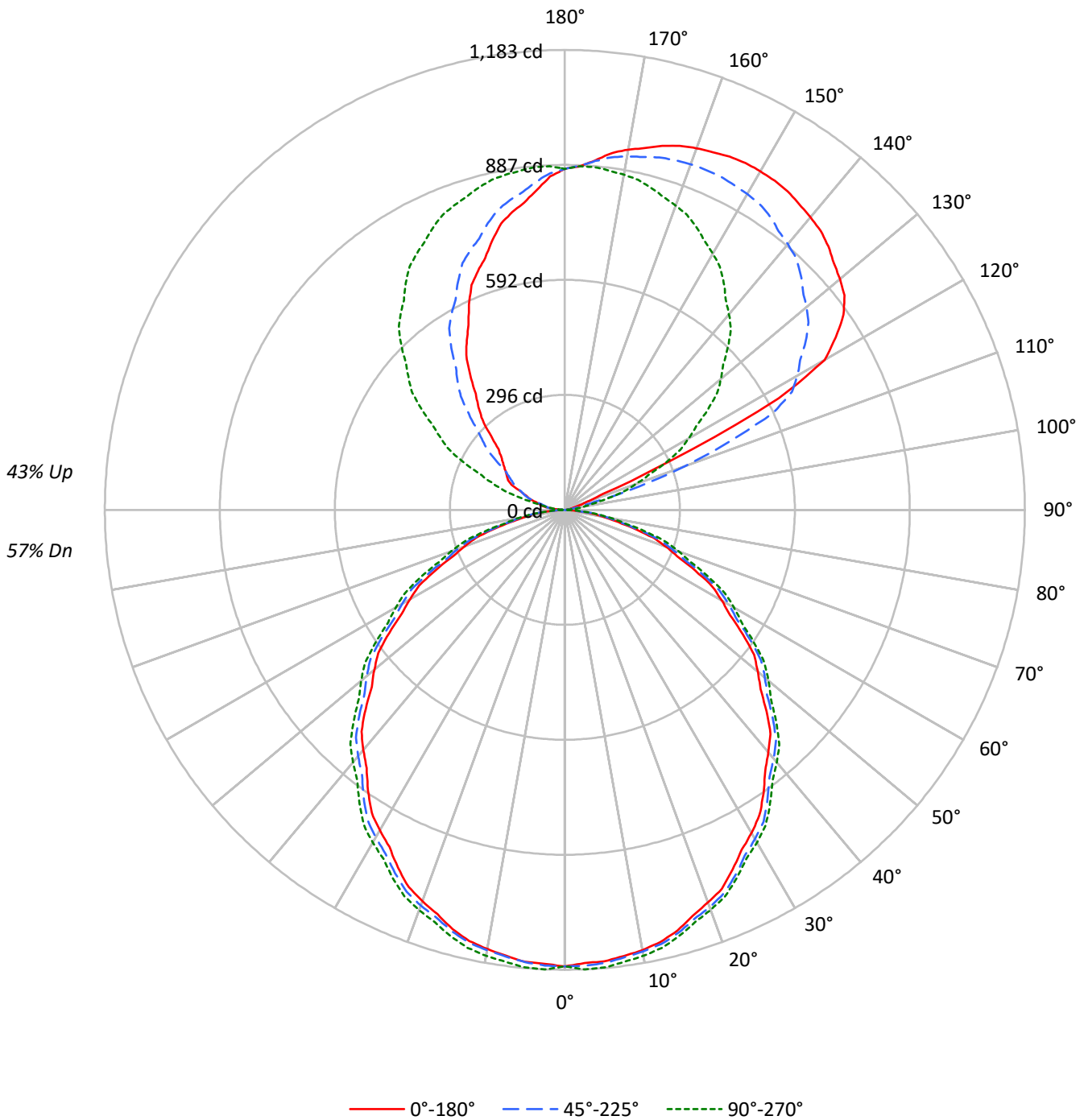
Lumens per Lamp: N/A
Luminaire Lumens: 5657.9 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57.2
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57				57
1	99	95	91	87	92	88	85	82	76	74	71	65	63	62	55	54	52	48				48
2	90	83	77	71	84	77	72	67	67	63	59	57	54	51	48	46	44	40				40
3	82	73	65	59	76	68	61	56	59	54	50	50	47	43	43	40	37	34				34
4	75	64	56	50	70	60	53	47	52	47	42	45	41	37	38	35	32	29				29
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	31	28	25				25
6	64	51	43	37	59	48	41	35	42	36	32	36	32	28	31	27	25	22				22
7	59	46	38	33	55	43	36	31	38	32	28	33	28	25	28	25	22	19				19
8	55	42	34	29	51	40	32	27	35	29	25	30	26	22	26	22	19	17				17
9	51	38	31	26	47	36	29	24	32	26	22	28	23	20	24	20	18	15				15
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14				14

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	2.0
10°-20°	316.5	5.6
20°-30°	474.4	8.4
30°-40°	564.1	10.0
40°-50°	577.5	10.2
50°-60°	514.8	9.1
60°-70°	383.7	6.8
70°-80°	209.7	3.7
80°-90°	49.7	0.9
90°-100°	22.1	0.4
100°-110°	102.5	1.8
110°-120°	298.9	5.3
120°-130°	434.3	7.7
130°-140°	464.7	8.2
140°-150°	444.6	7.9
150°-160°	366.6	6.5
160°-170°	239.8	4.2
170°-180°	83.1	1.5
0°-30°	901.9	15.9
0°-40°	1466.0	25.9
0°-60°	2558.2	45.2
0°-90°	3201.3	56.6
90°-120°	423.5	7.5
90°-150°	1767.2	31.2
90°-180°	2457.0	43.4
0°-180°	5657.9	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°	2	2	1	3	7	1
95°	7	8	16	27	25	7
105°	27	79	114	72	78	33
115°	301	592	284	136	150	353
125°	875	756	448	208	190	774
135°	958	858	593	349	268	740
145°	1000	920	713	508	424	626
155°	1003	946	802	649	583	463
165°	969	939	858	763	719	275
175°	902	901	885	847	826	87
180°	877	877	877	877	877	



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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°	2.9	3.5	6.7	12.9	11.6	13.6	12.1	9.4	9.6
90°	1.6	1.6	1.6	0.8	0.8	1.6	3.3	5.8	6.6
92.5°	3.0	3.6	3.6	4.1	4.8	9.5	6.6	7.7	7.9
95°	6.6	6.6	8.2	19.7	16.5	24.5	27.2	25.5	24.7
97.5°	10.9	11.7	16.0	51.7	37.1	32.9	44.8	47.9	45.0
100°	14.8	15.6	23.9	81.8	53.6	42.3	49.4	58.5	60.2
102.5°	19.4	20.9	37.1	126.1	75.3	53.7	56.7	65.2	67.4
105°	27.2	31.2	79.1	208.8	113.7	71.0	72.5	75.1	78.3
107.5°	42.2	56.7	200.9	296.4	161.0	93.2	96.4	94.1	94.3
110°	59.3	89.9	328.8	346.8	195.3	110.7	109.6	107.9	105.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	107.5	188.4	458.0	391.4	231.6	129.6	120.1	127.6	122.6
115°	300.8	456.3	591.7	452.7	284.3	161.8	136.0	146.8	150.0
117.5°	620.3	690.8	658.2	507.2	334.7	199.5	151.1	158.8	164.2
120°	771.3	768.9	690.6	540.8	368.3	227.3	162.3	167.4	171.4
122.5°	826.7	803.6	717.6	571.1	400.7	257.1	177.5	174.6	179.3
125°	875.1	843.7	756.5	612.7	448.3	302.4	207.7	186.3	189.5
127.5°	906.6	872.1	789.8	650.7	494.4	350.5	247.5	204.8	200.9
130°	923.8	889.9	810.9	674.0	524.1	381.5	275.2	223.1	213.4
132.5°	938.3	906.4	830.6	696.5	553.1	413.1	304.9	246.1	231.9
135°	958.4	927.7	857.8	729.5	593.3	458.8	349.4	288.0	267.8
137.5°	973.7	945.8	879.3	759.0	632.4	503.8	396.0	334.3	313.6
140°	982.3	955.7	892.4	777.6	656.8	532.7	427.7	364.6	345.3
142.5°	990.2	964.2	903.6	794.3	679.8	560.3	460.0	395.6	376.3
145°	999.6	974.6	920.5	818.4	712.8	601.6	508.4	442.9	424.4
147.5°	1004.0	981.0	932.5	839.8	742.3	639.8	553.4	490.5	471.8
150°	1005.3	983.6	937.8	852.5	761.4	664.7	581.8	522.8	503.5
152.5°	1006.0	983.6	941.7	863.2	778.6	687.0	609.5	553.8	535.8
155°	1002.9	982.7	946.0	875.9	801.8	718.8	649.3	598.7	582.6
157.5°	995.6	980.8	946.7	886.7	821.2	748.6	687.3	640.9	625.8
160°	989.7	976.8	946.0	892.7	833.1	766.2	710.3	668.0	653.5
162.5°	981.8	968.9	942.7	895.5	843.7	782.6	732.1	691.8	679.8
165°	969.1	957.0	938.6	899.7	857.8	807.1	763.1	728.2	718.6
167.5°	952.9	945.4	929.5	901.4	869.2	828.1	791.4	763.0	754.8
170°	941.1	935.4	922.9	900.9	875.1	840.5	809.2	783.5	777.9
172.5°	925.9	922.8	914.4	898.4	879.8	851.6	825.0	802.7	797.0
175°	902.3	903.9	900.7	894.7	885.0	865.7	847.1	831.3	825.7
177.5°	884.7	884.7	885.4	886.0	884.7	876.3	866.9	857.7	858.3
180°	876.8	876.8	876.8	876.8	876.8	876.8	876.8	876.8	876.8

(END OF REPORT)