

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: P511831

Luminaire Tested: **SQW-F-0U-100D-935-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511831
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-100D-935-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

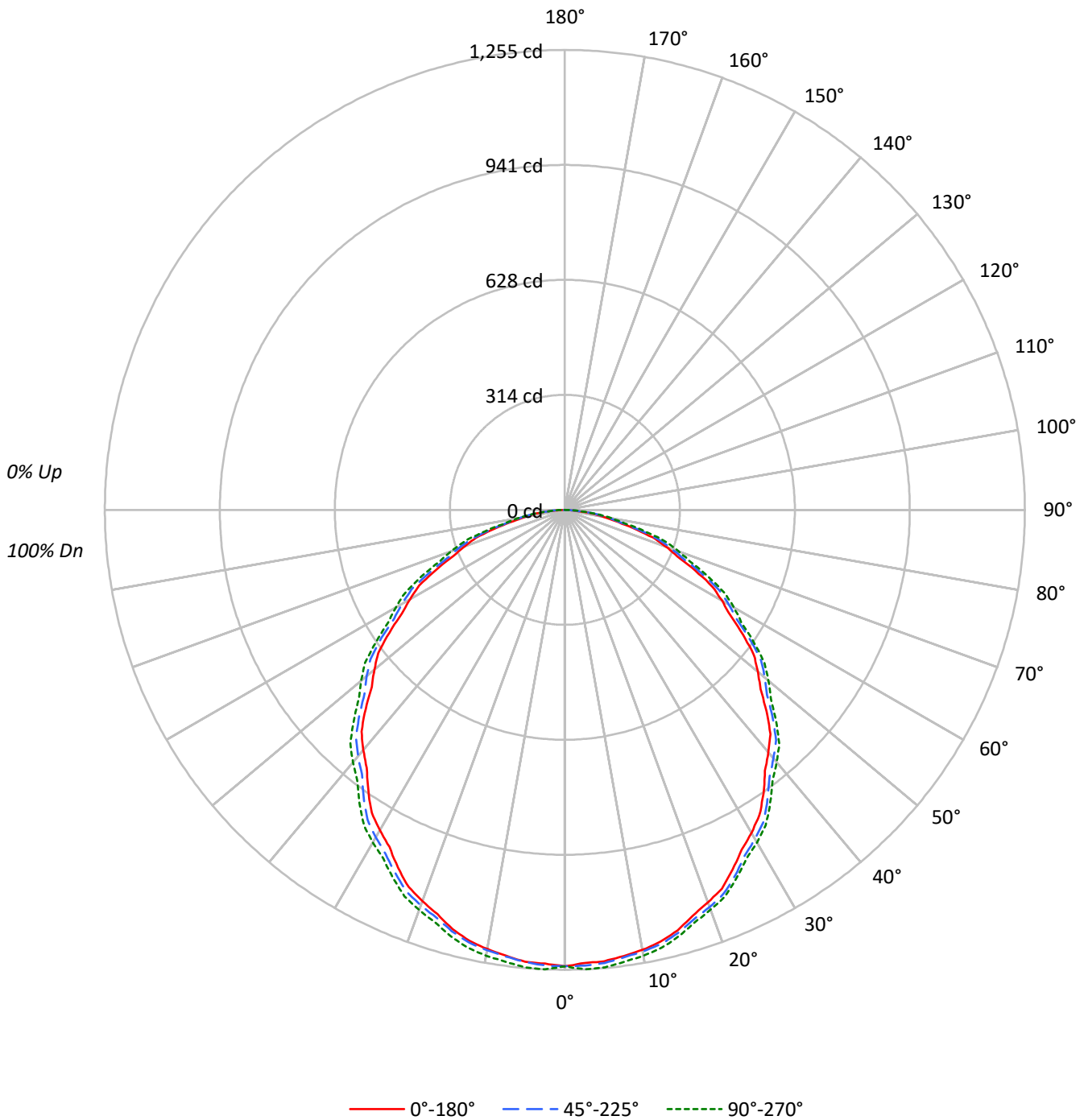
Lumens per Lamp: N/A
Luminaire Lumens: 3395.1 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 36.6
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84				84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70				70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59				59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51				51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44				44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38				38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34				34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30				30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27				27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	40223	40223	40223
5°	40078	40623	40130
10°	39987	40512	39905
15°	39726	40261	39586
20°	39182	39935	39038
25°	38584	39514	38374
30°	37955	39088	37642
35°	37237	38499	36871
40°	36404	37896	36050
45°	35511	37205	35086
50°	34528	36437	34066
55°	33380	35418	32901
60°	31917	34371	31485
65°	30029	32993	29639
70°	27626	31138	27314
75°	23993	28197	24517
80°	19284	23375	20381
85°	10634	15932	13746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	3.5
10°-20°	335.7	9.9
20°-30°	503.2	14.8
30°-40°	598.3	17.6
40°-50°	612.5	18.0
50°-60°	546.0	16.1
60°-70°	407.0	12.0
70°-80°	222.4	6.6
80°-90°	52.2	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	956.7	28.2
0°-40°	1555.0	45.8
0°-60°	2713.5	79.9
0°-90°	3395.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3395.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1246	1246	1246	1246	1246	
5°	1236	1241	1253	1239	1238	117
15°	1188	1195	1204	1190	1184	334
25°	1083	1101	1109	1095	1077	499
35°	945	964	977	957	935	590
45°	778	801	815	792	768	600
55°	593	616	629	611	584	529
65°	393	412	432	409	388	389
75°	192	208	226	209	196	206
85°	29	40	43	44	37	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6
2.5°	1237.5	1243.5	1245.0	1243.9	1255.1	1244.5	1244.3	1243.5	1239.6
5°	1236.4	1238.0	1241.4	1239.2	1253.2	1239.2	1238.9	1237.2	1238.0
7.5°	1228.3	1229.9	1231.8	1229.6	1243.6	1229.3	1229.1	1226.3	1227.1
10°	1219.5	1221.1	1223.7	1221.5	1235.5	1219.8	1220.3	1216.1	1217.0
12.5°	1207.3	1209.0	1213.6	1210.7	1224.0	1209.0	1209.5	1204.7	1204.8
15°	1188.3	1190.8	1195.0	1190.3	1204.3	1189.5	1190.0	1184.9	1184.1
17.5°	1161.1	1166.1	1171.3	1167.2	1179.7	1165.5	1166.2	1158.4	1156.2
20°	1140.2	1145.2	1153.7	1149.0	1162.1	1147.3	1148.7	1136.8	1136.0
22.5°	1119.3	1122.9	1133.5	1128.7	1141.9	1127.1	1127.7	1113.9	1113.7
25°	1082.9	1087.8	1100.6	1096.6	1109.0	1094.2	1094.7	1079.4	1077.0
27.5°	1045.6	1050.7	1063.6	1059.9	1072.6	1057.4	1058.4	1041.4	1036.5
30°	1017.9	1023.7	1037.3	1034.3	1048.3	1031.8	1031.4	1014.4	1009.5
32.5°	988.2	995.3	1009.0	1007.3	1020.0	1004.1	1002.4	985.4	980.5
35°	944.6	952.0	964.0	965.1	976.6	961.8	957.2	941.1	935.3
37.5°	897.3	904.3	917.2	919.5	930.7	915.2	908.8	894.1	887.5
40°	863.6	871.8	885.5	889.1	899.0	884.2	877.1	861.8	855.2
42.5°	830.5	838.8	853.1	858.7	866.0	851.8	843.4	828.7	820.8
45°	777.6	785.8	801.2	808.9	814.7	801.5	791.9	776.5	768.3
47.5°	723.8	732.8	748.4	757.9	761.7	749.7	740.8	723.7	714.5
50°	687.3	696.4	712.6	722.8	725.3	714.6	705.0	688.0	678.1
52.5°	650.2	658.0	674.2	685.7	686.8	678.1	667.9	650.9	641.6
55°	592.9	601.1	616.5	630.0	629.1	623.4	610.6	593.5	584.4
57.5°	534.0	540.6	556.6	571.0	571.3	564.7	552.4	535.5	526.6
60°	494.2	500.8	516.1	530.5	532.2	525.6	511.9	495.7	487.5
62.5°	454.4	460.3	475.0	490.7	492.4	485.8	471.4	455.9	447.7
65°	393.0	398.0	412.4	428.5	431.8	424.4	409.0	395.4	387.9
67.5°	332.5	337.2	350.7	366.6	370.9	362.5	348.6	335.7	328.4
70°	292.6	296.8	309.5	324.8	329.8	320.7	309.5	295.9	289.3
72.5°	252.2	256.3	269.0	283.6	287.9	279.5	269.0	256.8	254.2
75°	192.3	196.4	207.5	222.7	226.0	218.6	209.2	198.2	196.5
77.5°	138.8	141.5	151.5	162.0	164.1	159.7	154.0	144.2	143.4
80°	103.7	107.0	116.4	124.8	125.7	123.2	118.9	110.5	109.6
82.5°	72.7	75.3	83.3	91.1	89.9	90.1	87.2	79.4	79.3
85°	28.7	31.1	39.6	46.3	43.0	45.5	43.9	37.9	37.1
87.5°	2.7	3.4	6.7	13.5	12.1	14.1	12.1	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)