

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: P522427

Luminaire Tested: **SQW-F-0U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522427
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-075D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

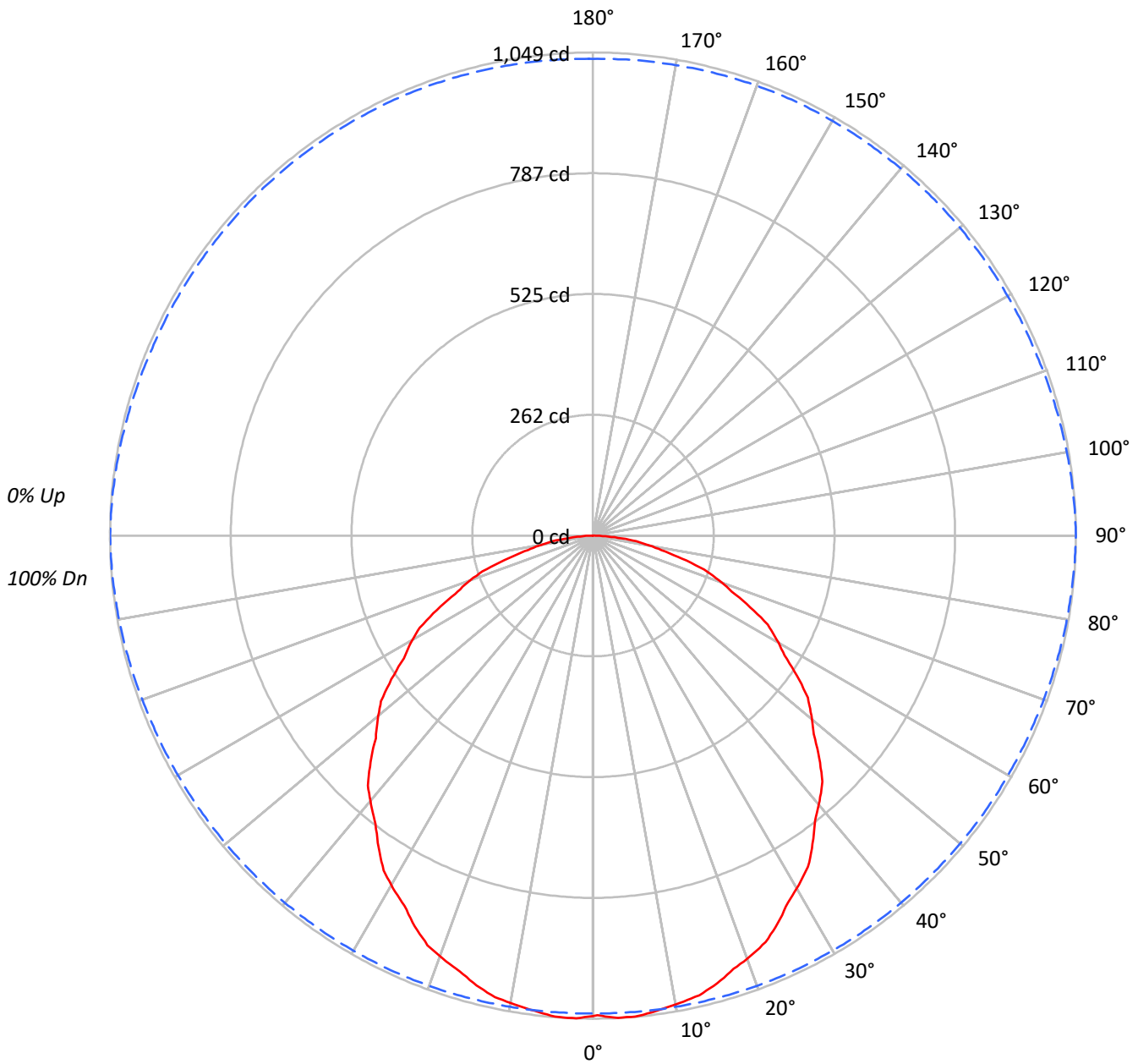
Lumens per Lamp: N/A
Luminaire Lumens: 2908.8 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 31.8
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 90° Lateral - - - Horizontal Cone Through 2.5° 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16819	16819	16819
5°	16835	16982	16752
10°	16811	16928	16644
15°	16749	16868	16493
20°	16639	16761	16289
25°	16436	16618	16037
30°	16231	16421	15776
35°	15997	16198	15514
40°	15732	15968	15152
45°	15438	15742	14858
50°	15091	15448	14503
55°	14705	15136	14075
60°	14237	14832	13546
65°	13616	14357	12879
70°	12883	13700	11920
75°	11753	12452	10736
80°	10228	11074	9186
85°	7744	8670	6410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	3.4
10°-20°	281.6	9.7
20°-30°	423.5	14.6
30°-40°	505.9	17.4
40°-50°	520.1	17.9
50°-60°	468.0	16.1
60°-70°	356.2	12.2
70°-80°	201.8	6.9
80°-90°	53.1	1.8
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°	803.6	27.6
0°-40°	1309.5	45.0
0°-60°	2297.6	79.0
0°-90°	2908.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2908.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1042	1042	1042	1042	1042	
5°	1039	1039	1048	1036	1034	99
15°	1002	1004	1009	996	987	283
25°	923	932	933	916	900	425
35°	812	823	822	804	787	507
45°	676	685	689	669	651	521
55°	522	533	538	517	500	467
65°	356	367	376	353	337	353
75°	188	194	200	183	172	200
85°	42	47	47	42	35	51
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°	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7
2.5°	1037.6	1040.8	1040.9	1041.1	1049.0	1040.3	1040.1	1040.0	1035.2
5°	1038.7	1038.7	1038.7	1036.9	1047.8	1035.9	1035.6	1033.6	1033.6
7.5°	1032.8	1031.0	1032.1	1029.9	1039.9	1026.9	1027.7	1025.4	1025.0
10°	1025.4	1024.4	1026.4	1022.6	1032.5	1019.6	1020.3	1017.2	1015.2
12.5°	1017.3	1016.3	1019.1	1013.6	1024.4	1011.5	1011.4	1007.5	1007.1
15°	1002.0	1002.0	1004.0	1000.2	1009.1	996.2	995.9	991.7	986.7
17.5°	983.9	981.7	986.5	980.2	989.4	974.8	975.9	969.9	964.3
20°	968.4	965.4	973.5	965.6	975.5	958.6	961.3	952.0	948.0
22.5°	950.5	948.3	957.2	950.1	959.2	943.1	944.2	932.5	929.3
25°	922.6	921.6	931.7	923.8	932.8	915.8	916.5	904.2	900.2
27.5°	891.8	891.0	902.2	894.2	902.0	886.3	886.7	873.2	868.2
30°	870.6	870.6	881.8	873.9	880.8	865.9	865.5	851.2	846.2
32.5°	847.8	847.0	858.2	851.8	858.0	842.3	841.1	827.6	822.6
35°	811.6	811.6	822.8	815.8	821.8	807.8	804.5	791.1	787.1
37.5°	773.3	772.3	783.5	779.1	784.5	769.8	765.1	750.9	749.9
40°	746.4	745.4	756.6	754.6	757.6	743.7	738.3	723.9	718.9
42.5°	718.7	719.3	728.9	726.9	730.7	716.8	711.4	696.3	693.7
45°	676.1	675.2	685.3	684.4	689.4	675.4	669.0	652.7	650.7
47.5°	631.7	632.1	641.1	642.2	645.2	632.4	624.8	608.7	606.7
50°	600.8	602.8	611.0	612.1	615.0	603.1	594.7	579.4	577.4
52.5°	570.7	571.8	580.0	583.5	584.1	573.7	563.7	549.2	547.2
55°	522.4	525.4	532.6	536.7	537.7	528.7	517.3	503.0	500.0
57.5°	473.5	475.5	485.3	490.0	490.2	480.8	469.4	456.1	451.3
60°	440.9	442.9	451.1	458.3	459.3	448.3	436.8	423.5	419.5
62.5°	407.5	409.5	417.7	424.9	425.9	415.7	403.4	390.1	387.0
65°	356.4	358.4	366.6	374.8	375.8	365.8	353.3	340.0	337.1
67.5°	306.3	308.3	316.3	323.1	325.2	314.5	303.0	290.7	286.8
70°	272.9	274.9	282.1	287.2	290.2	280.3	268.8	256.5	252.5
72.5°	237.9	239.1	246.2	252.1	252.7	244.4	233.8	224.0	220.8
75°	188.4	190.4	194.5	200.6	199.6	191.6	183.3	176.1	172.1
77.5°	140.9	143.1	147.0	151.1	151.7	144.4	137.3	130.1	127.3
80°	110.0	113.0	116.1	120.1	119.1	114.2	107.9	100.8	98.8
82.5°	81.5	83.7	87.6	90.8	88.2	84.8	80.2	73.1	71.1
85°	41.8	42.7	46.8	49.8	46.8	45.8	41.8	36.6	34.6
87.5°	9.0	10.6	13.8	17.8	14.7	15.5	12.2	8.1	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)