

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: P522425

Luminaire Tested: **SQW-F-0U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522425
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 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

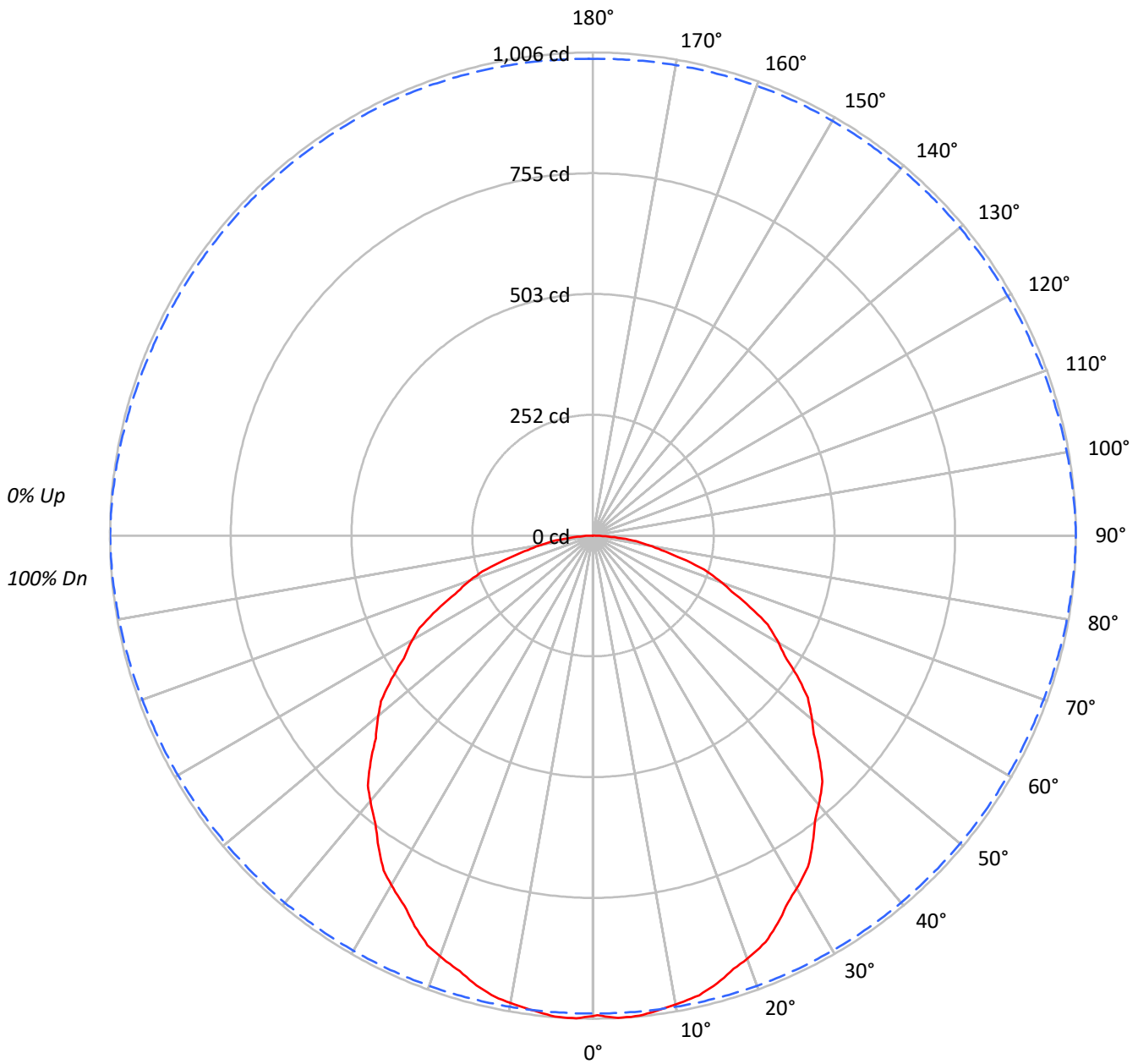
Lumens per Lamp: N/A
Luminaire Lumens: 2789.5 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

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	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	94	97	94	91	94	91	88	90	88	86	84				84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70				70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59				59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50				50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43				43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38				38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33				33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30				30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27				27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16130	16130	16130
5°	16144	16287	16065
10°	16123	16234	15962
15°	16062	16177	15818
20°	15957	16074	15622
25°	15763	15935	15380
30°	15567	15748	15129
35°	15341	15534	14879
40°	15087	15314	14533
45°	14805	15095	14248
50°	14473	14815	13908
55°	14103	14514	13498
60°	13656	14221	12991
65°	13058	13769	12348
70°	12354	13138	11434
75°	11273	11940	10293
80°	9809	10628	8805
85°	7410	8318	6150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	3.4
10°-20°	270.0	9.7
20°-30°	406.2	14.6
30°-40°	485.2	17.4
40°-50°	498.8	17.9
50°-60°	448.9	16.1
60°-70°	341.6	12.2
70°-80°	193.6	6.9
80°-90°	50.9	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°	770.7	27.6
0°-40°	1255.8	45.0
0°-60°	2203.5	79.0
0°-90°	2789.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2789.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	999	999	999	999	999	
5°	996	996	1005	993	991	95
15°	961	963	968	955	946	271
25°	885	894	894	879	863	408
35°	778	789	788	772	755	487
45°	648	657	661	642	624	500
55°	501	511	516	496	480	448
65°	342	352	360	339	323	339
75°	181	186	191	176	165	192
85°	40	45	45	40	33	49
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°	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0
2.5°	995.1	998.2	998.2	998.4	1006.1	997.7	997.5	997.4	992.8
5°	996.1	996.1	996.1	994.4	1004.9	993.4	993.2	991.2	991.2
7.5°	990.4	988.7	989.8	987.7	997.3	984.9	985.5	983.4	983.0
10°	983.4	982.4	984.4	980.7	990.2	977.8	978.5	975.5	973.6
12.5°	975.6	974.6	977.3	972.1	982.4	970.0	969.9	966.2	965.8
15°	960.9	960.9	962.9	959.2	967.8	955.4	955.1	951.1	946.3
17.5°	943.6	941.5	946.1	940.0	948.8	934.9	935.9	930.2	924.8
20°	928.7	925.8	933.6	926.0	935.5	919.3	921.9	913.0	909.2
22.5°	911.5	909.4	918.0	911.1	919.9	904.5	905.5	894.3	891.2
25°	884.8	883.8	893.6	885.9	894.5	878.3	878.9	867.1	863.3
27.5°	855.3	854.5	865.2	857.6	865.0	850.0	850.4	837.4	832.6
30°	835.0	835.0	845.7	838.0	844.7	830.4	830.1	816.3	811.5
32.5°	813.1	812.3	823.0	816.9	822.9	807.8	806.6	793.6	788.9
35°	778.3	778.3	789.1	782.4	788.1	774.7	771.5	758.7	754.9
37.5°	741.6	740.6	751.4	747.2	752.3	738.2	733.8	720.1	719.1
40°	715.8	714.9	725.6	723.7	726.6	713.2	708.0	694.2	689.5
42.5°	689.3	689.8	699.0	697.2	700.8	687.4	682.2	667.7	665.2
45°	648.4	647.5	657.2	656.4	661.1	647.8	641.6	625.9	624.0
47.5°	605.9	606.2	614.8	615.9	618.8	606.5	599.2	583.7	581.8
50°	576.2	578.1	585.9	587.0	589.8	578.4	570.3	555.6	553.7
52.5°	547.3	548.4	556.3	559.6	560.2	550.2	540.6	526.7	524.8
55°	501.0	503.8	510.7	514.7	515.6	507.0	496.1	482.4	479.5
57.5°	454.1	456.0	465.4	469.9	470.1	461.1	450.2	437.4	432.8
60°	422.9	424.8	432.6	439.5	440.4	429.9	418.9	406.2	402.3
62.5°	390.8	392.7	400.6	407.4	408.4	398.7	386.9	374.2	371.1
65°	341.8	343.7	351.6	359.4	360.4	350.8	338.9	326.1	323.2
67.5°	293.8	295.7	303.3	309.8	311.9	301.6	290.6	278.8	275.0
70°	261.7	263.6	270.5	275.5	278.3	268.8	257.8	246.0	242.2
72.5°	228.1	229.3	236.1	241.8	242.4	234.4	224.2	214.8	211.7
75°	180.7	182.6	186.5	192.4	191.4	183.8	175.8	168.9	165.0
77.5°	135.2	137.3	141.0	144.9	145.5	138.4	131.6	124.7	122.1
80°	105.5	108.3	111.3	115.2	114.3	109.5	103.5	96.6	94.7
82.5°	78.1	80.2	84.0	87.1	84.6	81.3	77.0	70.1	68.2
85°	40.0	41.0	44.9	47.8	44.9	44.0	40.0	35.1	33.2
87.5°	8.6	10.1	13.3	17.1	14.1	14.8	11.7	7.8	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)