

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: P511826

Luminaire Tested: **SQW-F-0U-075D-940-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511826  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-0U-075D-940-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

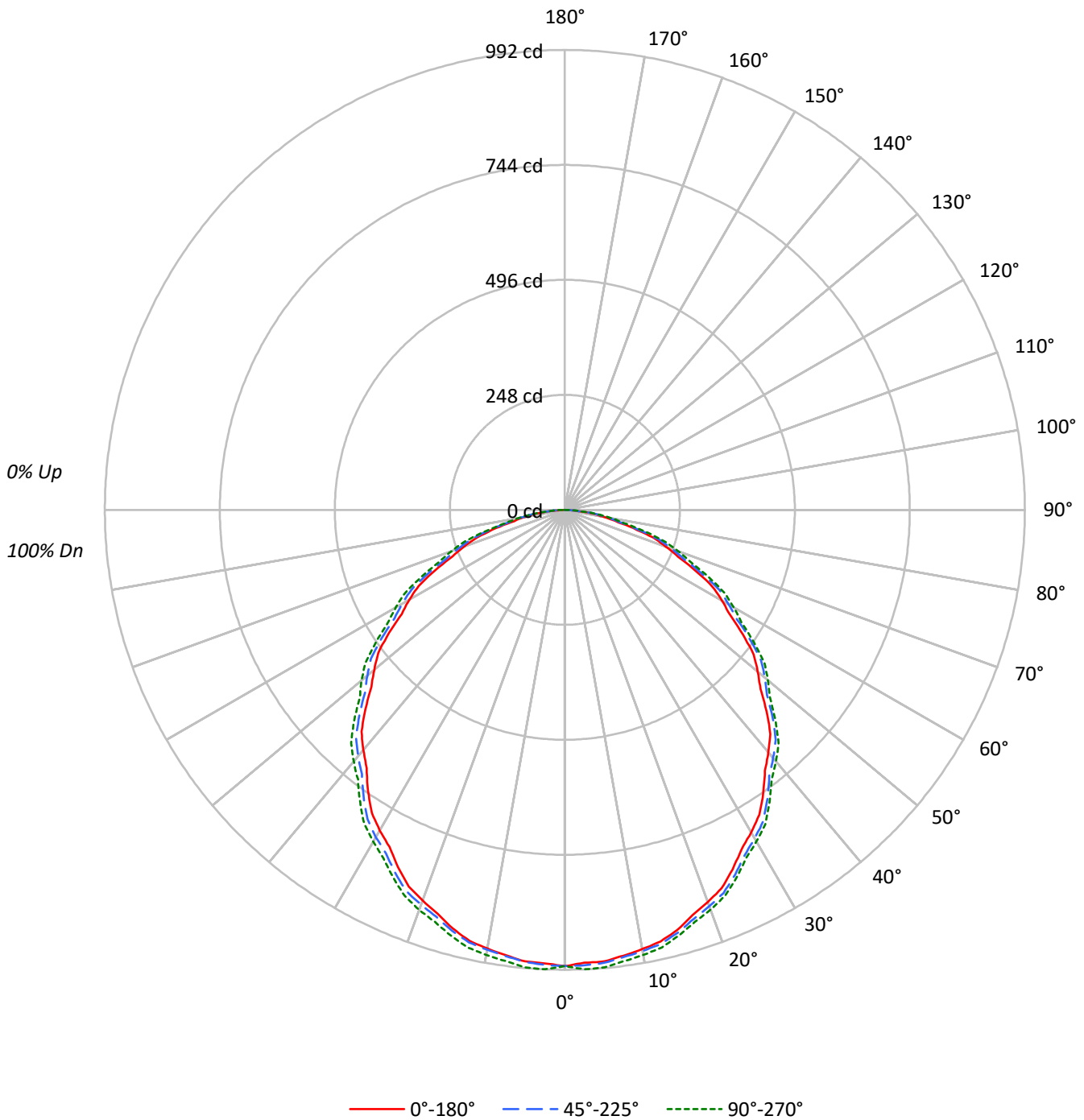
Lumens per Lamp: N/A  
Luminaire Lumens: 2681.1 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.3  
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	100	100	
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84	84	84	84	
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70	70	70	70	
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59	59	59	59	
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51	51	51	51	
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	44	44	
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38	38	38	38	
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34	34	34	34	
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30	30	30	30	
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27	27	27	27	
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25	25	25	25	

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

	0°	90°	180°
0°	31775	31775	31775
5°	31696	32098	31696
10°	31544	31977	31514
15°	31365	31776	31248
20°	30938	31543	30818
25°	30478	31201	30321
30°	29957	30811	29759
35°	29416	30350	29172
40°	28779	29858	28483
45°	28081	29328	27757
50°	27264	28721	26952
55°	26387	27969	26038
60°	25259	27138	24975
65°	23763	26048	23557
70°	21961	24538	21791
75°	19127	21984	19127
80°	15398	18354	15900
85°	8818	12412	10448



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.0	3.5
10°-20°	265.1	9.9
20°-30°	397.2	14.8
30°-40°	472.3	17.6
40°-50°	483.5	18.0
50°-60°	431.1	16.1
60°-70°	322.1	12.0
70°-80°	175.6	6.5
80°-90°	41.3	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°	755.3	28.2
0°-40°	1227.6	45.8
0°-60°	2142.1	79.9
0°-90°	2681.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2681.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	984	984	984	984	984	
5°	978	980	990	979	978	93
15°	938	944	950	940	935	264
25°	855	869	876	865	851	394
35°	746	761	770	757	740	466
45°	615	633	642	626	608	474
55°	469	487	497	482	462	418
65°	311	327	341	325	308	308
75°	153	165	176	166	153	164
85°	24	31	34	34	28	34
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°	984.0	984.0	984.0	984.0	984.0	984.0	984.0	984.0	984.0
2.5°	977.7	982.5	983.3	982.1	991.8	982.8	982.6	982.5	979.1
5°	977.8	977.8	980.5	979.0	990.2	979.0	978.7	977.0	977.8
7.5°	969.7	970.8	972.7	971.0	981.5	970.2	970.8	968.2	969.6
10°	962.0	963.7	966.4	964.0	975.2	963.1	963.7	961.1	961.1
12.5°	953.5	955.3	958.6	955.5	966.7	955.4	955.3	951.9	951.9
15°	938.2	939.9	943.5	940.2	950.5	938.5	940.0	935.5	934.7
17.5°	916.5	920.1	924.8	921.5	932.0	919.8	920.6	914.6	913.0
20°	900.3	904.6	910.0	906.7	917.9	905.0	906.5	897.7	896.8
22.5°	883.4	887.0	894.5	891.2	901.7	889.5	891.0	879.3	879.2
25°	855.4	858.8	868.6	866.2	875.7	863.6	865.1	851.8	851.0
27.5°	825.3	829.7	839.5	837.3	846.8	833.8	835.3	821.0	819.3
30°	803.4	808.6	818.4	816.8	826.3	813.4	814.9	799.9	798.1
32.5°	780.2	786.7	796.5	795.7	804.5	792.2	791.6	777.3	774.9
35°	746.2	751.3	761.1	762.2	769.9	758.7	756.7	742.6	740.0
37.5°	708.8	714.1	724.0	726.2	732.9	721.9	718.7	704.5	701.8
40°	682.7	688.8	698.6	702.2	708.3	697.9	693.3	679.1	675.7
42.5°	655.9	662.7	673.2	676.9	682.2	671.9	666.5	653.0	648.9
45°	614.9	621.8	633.4	637.9	642.2	632.7	626.3	612.2	607.8
47.5°	572.3	579.1	591.1	596.6	599.9	592.2	584.8	570.6	565.4
50°	542.7	549.5	562.9	569.1	571.7	564.0	555.9	541.7	536.5
52.5°	513.8	520.0	533.3	540.2	542.1	535.8	527.0	513.5	507.6
55°	468.7	474.7	487.2	495.1	496.8	491.7	481.9	467.7	462.5
57.5°	422.1	428.2	440.5	449.3	451.2	446.0	435.4	422.9	417.0
60°	391.1	397.2	408.8	417.6	420.2	415.0	404.4	391.9	386.7
62.5°	359.4	364.1	376.3	385.2	389.2	384.7	373.3	359.5	355.0
65°	311.0	316.1	326.8	337.5	340.9	337.5	325.1	312.6	308.3
67.5°	264.3	267.7	277.5	288.0	292.3	288.5	277.3	264.6	261.8
70°	232.6	236.0	245.8	255.6	259.9	254.7	244.9	234.3	230.8
72.5°	199.4	202.9	212.0	221.7	225.3	220.2	211.8	202.5	198.4
75°	153.3	156.7	164.7	172.7	176.2	172.7	165.6	157.6	153.3
77.5°	110.3	113.6	120.5	127.4	129.0	126.7	121.7	114.8	111.5
80°	82.8	85.4	91.6	97.8	98.7	97.8	94.3	88.0	85.5
82.5°	58.1	60.0	66.2	71.0	70.5	72.4	68.9	63.4	61.5
85°	23.8	25.5	30.8	36.1	33.5	37.8	34.4	30.8	28.2
87.5°	2.8	2.8	5.6	9.9	9.2	11.9	9.2	7.0	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)