

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: P522431

Luminaire Tested: **SQW-F-0U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522431
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 (6500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

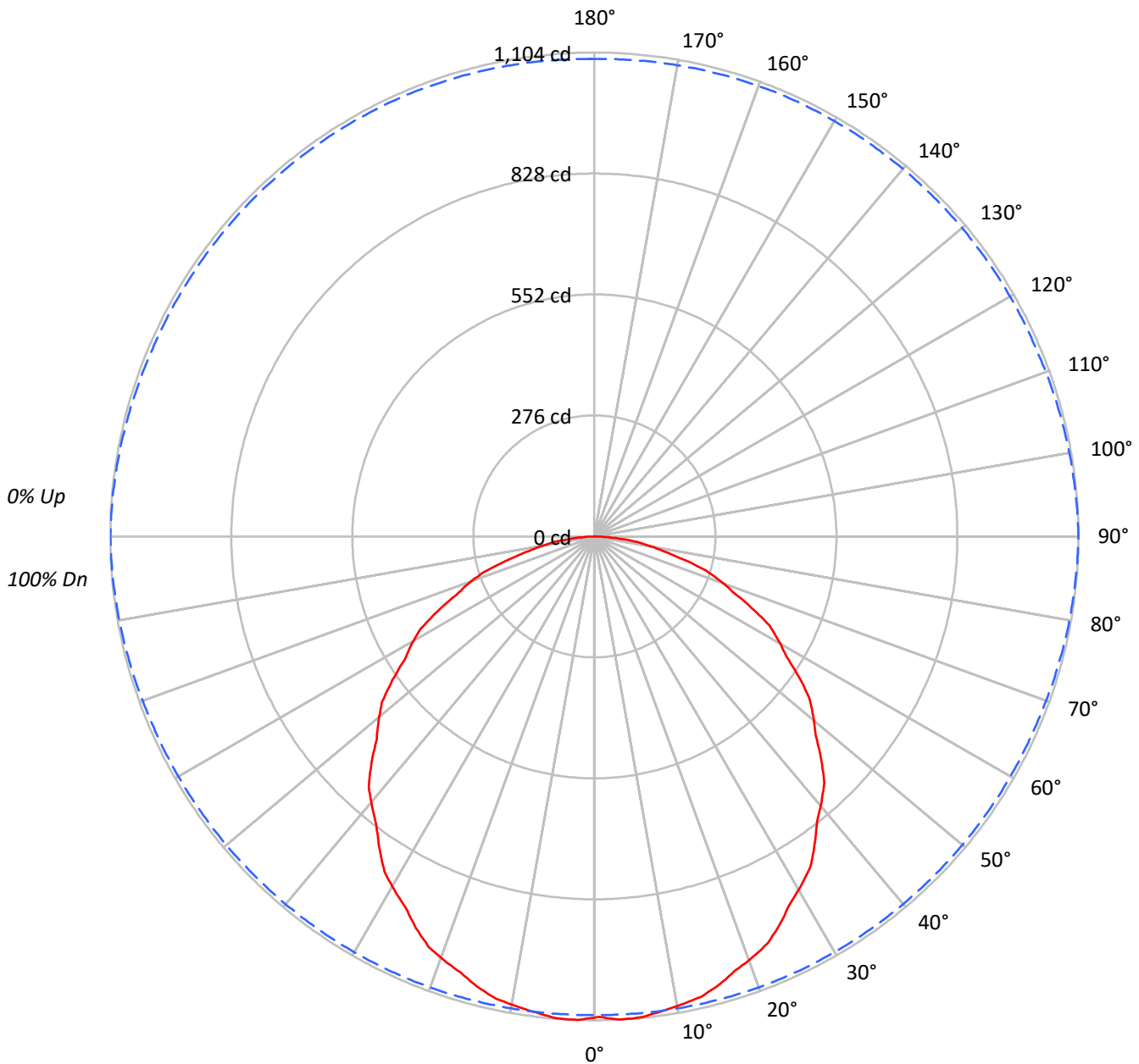
Lumens per Lamp: N/A
Luminaire Lumens: 3059.7 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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



— 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°	17693	17693	17693
5°	17708	17864	17621
10°	17684	17807	17508
15°	17618	17743	17349
20°	17502	17630	17134
25°	17288	17480	16869
30°	17074	17273	16595
35°	16827	17038	16320
40°	16547	16796	15938
45°	16239	16559	15630
50°	15875	16252	15254
55°	15468	15921	14804
60°	14977	15600	14250
65°	14323	15098	13543
70°	13553	14412	12538
75°	12364	13094	11291
80°	10758	11650	9661
85°	8133	9133	6743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	3.4
10°-20°	296.2	9.7
20°-30°	445.5	14.6
30°-40°	532.1	17.4
40°-50°	547.1	17.9
50°-60°	492.3	16.1
60°-70°	374.7	12.2
70°-80°	212.3	6.9
80°-90°	55.9	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°	845.3	27.6
0°-40°	1377.5	45.0
0°-60°	2416.8	79.0
0°-90°	3059.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3059.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1096	1096	1096	1096	1096	
5°	1093	1093	1102	1089	1087	104
15°	1054	1056	1062	1048	1038	297
25°	970	980	981	964	947	447
35°	854	866	864	846	828	534
45°	711	721	725	704	684	548
55°	550	560	566	544	526	491
65°	375	386	395	372	354	371
75°	198	205	210	193	181	210
85°	44	49	49	44	36	54
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°	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8
2.5°	1091.5	1094.8	1094.9	1095.1	1103.5	1094.3	1094.1	1093.9	1088.9
5°	1092.6	1092.6	1092.6	1090.7	1102.2	1089.6	1089.3	1087.2	1087.2
7.5°	1086.3	1084.5	1085.7	1083.4	1093.8	1080.2	1081.0	1078.6	1078.2
10°	1078.6	1077.6	1079.7	1075.7	1086.1	1072.5	1073.3	1070.0	1067.9
12.5°	1070.1	1069.0	1072.0	1066.2	1077.6	1063.9	1063.8	1059.8	1059.3
15°	1054.0	1054.0	1056.1	1052.1	1061.5	1047.9	1047.6	1043.2	1037.9
17.5°	1034.9	1032.6	1037.7	1031.1	1040.7	1025.4	1026.6	1020.2	1014.4
20°	1018.6	1015.5	1024.0	1015.7	1026.1	1008.3	1011.1	1001.4	997.2
22.5°	999.8	997.5	1006.9	999.4	1009.0	992.0	993.2	980.9	977.5
25°	970.4	969.4	980.1	971.7	981.2	963.4	964.0	951.1	946.9
27.5°	938.1	937.3	949.0	940.6	948.8	932.3	932.7	918.5	913.2
30°	915.8	915.8	927.6	919.2	926.5	910.8	910.5	895.3	890.1
32.5°	891.8	891.0	902.7	896.0	902.5	886.0	884.8	870.5	865.3
35°	853.7	853.7	865.5	858.1	864.4	849.7	846.2	832.2	828.0
37.5°	813.4	812.4	824.1	819.5	825.2	809.7	804.8	789.8	788.8
40°	785.1	784.1	795.9	793.8	796.9	782.3	776.6	761.5	756.2
42.5°	756.0	756.6	766.7	764.7	768.6	754.0	748.3	732.4	729.7
45°	711.2	710.2	720.9	719.9	725.2	710.5	703.7	686.5	684.5
47.5°	664.5	664.9	674.4	675.5	678.7	665.3	657.2	640.3	638.2
50°	632.0	634.1	642.7	643.8	647.0	634.4	625.5	609.4	607.3
52.5°	600.3	601.5	610.1	613.8	614.4	603.5	593.0	577.7	575.6
55°	549.5	552.6	560.2	564.5	565.6	556.1	544.1	529.1	525.9
57.5°	498.1	500.2	510.5	515.4	515.6	505.8	493.8	479.8	474.7
60°	463.8	465.9	474.5	482.0	483.1	471.6	459.5	445.5	441.3
62.5°	428.7	430.8	439.4	446.9	447.9	437.3	424.4	410.4	407.0
65°	374.9	377.0	385.6	394.2	395.2	384.8	371.7	357.7	354.5
67.5°	322.2	324.3	332.7	339.8	342.1	330.8	318.8	305.8	301.6
70°	287.1	289.2	296.7	302.1	305.3	294.8	282.8	269.8	265.6
72.5°	250.2	251.5	259.0	265.2	265.9	257.1	245.9	235.6	232.2
75°	198.2	200.3	204.6	211.0	209.9	201.6	192.8	185.2	181.0
77.5°	148.2	150.5	154.7	159.0	159.6	151.8	144.4	136.8	133.9
80°	115.7	118.8	122.1	126.4	125.3	120.1	113.5	106.0	103.9
82.5°	85.7	88.0	92.1	95.5	92.8	89.2	84.4	76.9	74.8
85°	43.9	45.0	49.3	52.4	49.3	48.2	43.9	38.5	36.4
87.5°	9.4	11.1	14.6	18.8	15.4	16.3	12.9	8.6	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)