

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: P522429

Luminaire Tested: **SQW-F-0U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522429
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 (5000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

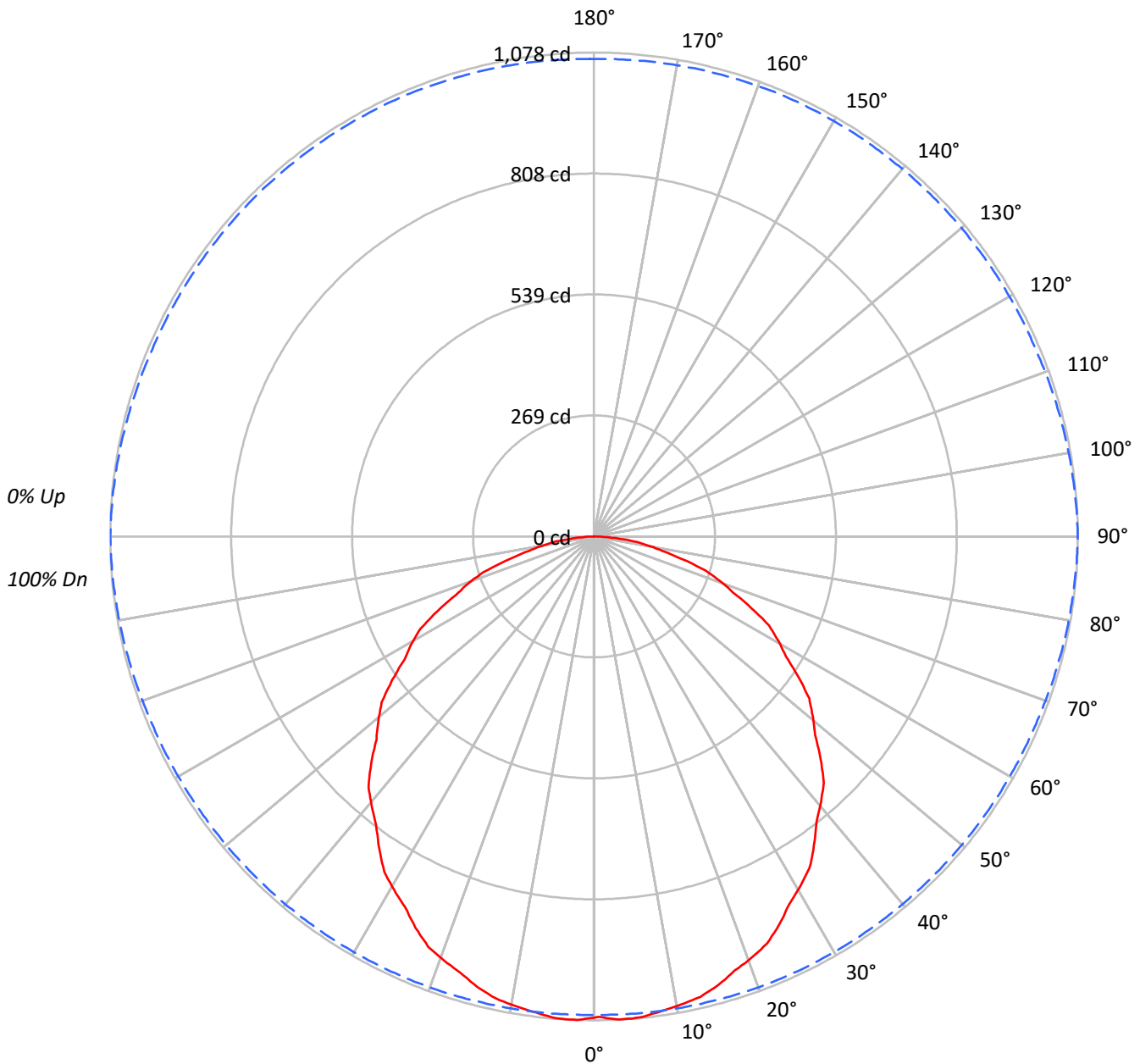
Lumens per Lamp: N/A
Luminaire Lumens: 2988.4 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 31.7
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°	17279	17279	17279
5°	17295	17447	17211
10°	17272	17392	17100
15°	17207	17331	16944
20°	17094	17220	16735
25°	16885	17072	16475
30°	16677	16871	16209
35°	16435	16642	15940
40°	16162	16404	15567
45°	15863	16173	15264
50°	15503	15872	14900
55°	15108	15550	14460
60°	14628	15235	13918
65°	13990	14747	13230
70°	13237	14077	12246
75°	12071	12788	11029
80°	10507	11381	9437
85°	7947	8911	6595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	3.4
10°-20°	289.3	9.7
20°-30°	435.1	14.6
30°-40°	519.7	17.4
40°-50°	534.3	17.9
50°-60°	480.9	16.1
60°-70°	365.9	12.2
70°-80°	207.4	6.9
80°-90°	54.5	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°	825.6	27.6
0°-40°	1345.4	45.0
0°-60°	2360.5	79.0
0°-90°	2988.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2988.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1070	1070	1070	1070	1070	
5°	1067	1067	1076	1064	1062	101
15°	1029	1032	1037	1023	1014	290
25°	948	957	958	942	925	437
35°	834	845	844	826	809	521
45°	695	704	708	687	668	535
55°	537	547	552	532	514	479
65°	366	377	386	363	346	363
75°	194	200	205	188	177	205
85°	43	48	48	43	36	52
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°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2
2.5°	1066.0	1069.3	1069.4	1069.6	1077.8	1068.8	1068.6	1068.4	1063.5
5°	1067.1	1067.1	1067.1	1065.3	1076.5	1064.2	1064.0	1061.9	1061.9
7.5°	1061.0	1059.2	1060.4	1058.1	1068.3	1055.0	1055.8	1053.5	1053.1
10°	1053.5	1052.5	1054.5	1050.6	1060.8	1047.5	1048.3	1045.1	1043.0
12.5°	1045.1	1044.1	1047.0	1041.4	1052.4	1039.1	1039.1	1035.1	1034.7
15°	1029.4	1029.4	1031.5	1027.5	1036.8	1023.5	1023.2	1018.9	1013.7
17.5°	1010.8	1008.6	1013.5	1007.0	1016.5	1001.5	1002.6	996.4	990.7
20°	994.9	991.8	1000.1	992.0	1002.2	984.8	987.6	978.1	974.0
22.5°	976.5	974.2	983.4	976.1	985.5	968.9	970.0	958.0	954.7
25°	947.8	946.8	957.2	949.1	958.3	940.9	941.6	928.9	924.8
27.5°	916.2	915.4	926.9	918.7	926.7	910.5	911.0	897.1	892.0
30°	894.5	894.5	906.0	897.8	904.9	889.6	889.2	874.5	869.4
32.5°	871.0	870.2	881.7	875.2	881.5	865.3	864.1	850.2	845.1
35°	833.8	833.8	845.3	838.1	844.3	829.9	826.5	812.8	808.7
37.5°	794.5	793.4	804.9	800.4	806.0	790.8	786.1	771.4	770.4
40°	766.8	765.8	777.3	775.3	778.3	764.0	758.5	743.7	738.6
42.5°	738.4	739.0	748.8	746.8	750.7	736.4	730.9	715.3	712.6
45°	694.7	693.6	704.1	703.1	708.3	693.9	687.3	670.5	668.5
47.5°	649.0	649.5	658.7	659.8	662.9	649.8	641.9	625.4	623.3
50°	617.2	619.3	627.7	628.8	631.9	619.6	611.0	595.2	593.2
52.5°	586.3	587.5	595.9	599.5	600.1	589.4	579.2	564.3	562.2
55°	536.7	539.8	547.1	551.4	552.4	543.2	531.5	516.7	513.7
57.5°	486.5	488.5	498.6	503.4	503.6	494.0	482.3	468.6	463.7
60°	453.0	455.0	463.5	470.8	471.8	460.6	448.8	435.1	431.0
62.5°	418.7	420.7	429.1	436.5	437.5	427.1	414.5	400.8	397.5
65°	366.2	368.2	376.6	385.0	386.0	375.8	363.0	349.4	346.3
67.5°	314.7	316.7	324.9	331.9	334.1	323.1	311.3	298.7	294.6
70°	280.4	282.4	289.8	295.1	298.2	287.9	276.2	263.5	259.4
72.5°	244.4	245.6	253.0	259.0	259.7	251.1	240.2	230.1	226.8
75°	193.5	195.6	199.8	206.1	205.0	196.9	188.3	180.9	176.8
77.5°	144.8	147.0	151.1	155.3	155.9	148.3	141.0	133.6	130.8
80°	113.0	116.1	119.3	123.4	122.4	117.3	110.9	103.5	101.5
82.5°	83.7	85.9	90.0	93.3	90.6	87.1	82.4	75.1	73.0
85°	42.9	43.9	48.1	51.2	48.1	47.1	42.9	37.6	35.6
87.5°	9.2	10.8	14.2	18.3	15.1	15.9	12.6	8.4	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)