

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: P522430

Luminaire Tested: **SQW-F-0U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522430
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 (5700K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

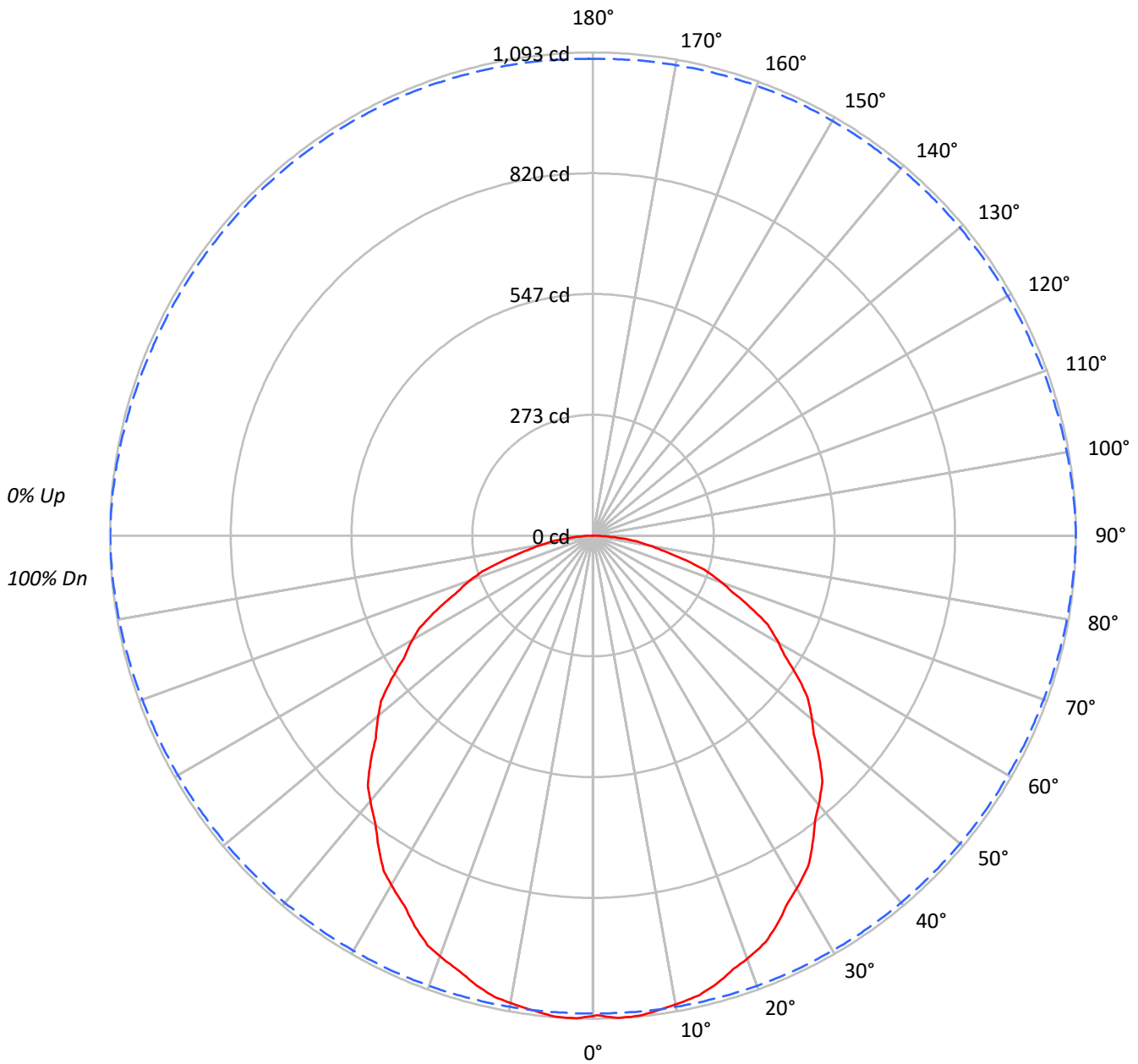
Lumens per Lamp: N/A
Luminaire Lumens: 3030.9 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

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°	17526	17526	17526
5°	17541	17695	17455
10°	17518	17639	17344
15°	17453	17576	17187
20°	17338	17466	16974
25°	17126	17314	16710
30°	16913	17111	16438
35°	16669	16878	16166
40°	16394	16638	15789
45°	16089	16401	15481
50°	15724	16098	15111
55°	15322	15769	14666
60°	14835	15452	14118
65°	14189	14957	13417
70°	13426	14275	12420
75°	12246	12976	11185
80°	10656	11539	9568
85°	8058	9040	6688



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	3.4
10°-20°	293.4	9.7
20°-30°	441.3	14.6
30°-40°	527.1	17.4
40°-50°	541.9	17.9
50°-60°	487.7	16.1
60°-70°	371.2	12.2
70°-80°	210.3	6.9
80°-90°	55.3	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°	837.4	27.6
0°-40°	1364.5	45.0
0°-60°	2394.1	79.0
0°-90°	3030.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3030.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1086	1086	1086	1086	1086	
5°	1082	1082	1092	1079	1077	103
15°	1044	1046	1052	1038	1028	294
25°	961	971	972	955	938	443
35°	846	857	856	838	820	529
45°	705	714	718	697	678	543
55°	544	555	560	539	521	486
65°	371	382	392	368	351	368
75°	196	203	208	191	179	208
85°	44	49	49	44	36	53
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°	1085.5	1085.5	1085.5	1085.5	1085.5	1085.5	1085.5	1085.5	1085.5
2.5°	1081.2	1084.6	1084.6	1084.8	1093.1	1084.0	1083.8	1083.7	1078.7
5°	1082.3	1082.3	1082.3	1080.4	1091.8	1079.4	1079.1	1077.0	1077.0
7.5°	1076.1	1074.3	1075.5	1073.2	1083.6	1070.1	1070.8	1068.5	1068.1
10°	1068.5	1067.5	1069.6	1065.5	1075.9	1062.4	1063.2	1060.0	1057.9
12.5°	1060.0	1059.0	1061.9	1056.2	1067.4	1053.9	1053.9	1049.8	1049.4
15°	1044.1	1044.1	1046.2	1042.2	1051.5	1038.0	1037.7	1033.4	1028.2
17.5°	1025.2	1022.9	1028.0	1021.4	1030.9	1015.8	1016.9	1010.6	1004.8
20°	1009.1	1006.0	1014.4	1006.1	1016.5	998.9	1001.6	992.0	987.9
22.5°	990.4	988.1	997.4	990.0	999.5	982.7	983.8	971.7	968.3
25°	961.3	960.3	970.9	962.6	971.9	954.3	955.0	942.1	938.0
27.5°	929.3	928.5	940.1	931.8	939.9	923.5	924.0	909.9	904.7
30°	907.2	907.2	918.9	910.6	917.8	902.3	901.9	886.9	881.7
32.5°	883.4	882.6	894.3	887.6	894.1	877.7	876.4	862.3	857.1
35°	845.7	845.7	857.3	850.1	856.3	841.8	838.2	824.4	820.2
37.5°	805.8	804.7	816.4	811.8	817.4	802.1	797.3	782.4	781.4
40°	777.8	776.7	788.4	786.3	789.4	774.9	769.3	754.3	749.1
42.5°	748.9	749.5	759.5	757.5	761.4	746.9	741.3	725.5	722.8
45°	704.6	703.5	714.1	713.2	718.3	703.8	697.1	680.1	678.0
47.5°	658.3	658.7	668.0	669.2	672.3	659.0	651.1	634.3	632.2
50°	626.0	628.1	636.6	637.8	640.9	628.4	619.7	603.7	601.6
52.5°	594.6	595.9	604.4	608.0	608.6	597.8	587.4	572.3	570.2
55°	544.3	547.4	554.9	559.2	560.2	550.9	539.0	524.1	521.0
57.5°	493.4	495.5	505.7	510.6	510.8	501.0	489.2	475.2	470.3
60°	459.4	461.5	470.1	477.5	478.5	467.1	455.2	441.3	437.2
62.5°	424.6	426.7	435.3	442.7	443.7	433.2	420.4	406.5	403.2
65°	371.4	373.4	382.0	390.5	391.5	381.2	368.2	354.3	351.2
67.5°	319.2	321.2	329.6	336.6	338.9	327.7	315.8	302.9	298.8
70°	284.4	286.4	293.9	299.3	302.4	292.0	280.1	267.3	263.1
72.5°	247.9	249.1	256.6	262.7	263.4	254.6	243.6	233.4	230.0
75°	196.3	198.4	202.7	209.0	208.0	199.7	191.0	183.5	179.3
77.5°	146.9	149.1	153.2	157.5	158.1	150.4	143.0	135.5	132.6
80°	114.6	117.7	121.0	125.2	124.1	119.0	112.5	105.0	102.9
82.5°	84.9	87.2	91.3	94.6	91.9	88.4	83.6	76.1	74.1
85°	43.5	44.5	48.8	51.9	48.8	47.8	43.5	38.2	36.1
87.5°	9.3	11.0	14.4	18.6	15.3	16.1	12.7	8.5	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)