

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: P522423

Luminaire Tested: **SQW-F-0U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522423
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-050D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

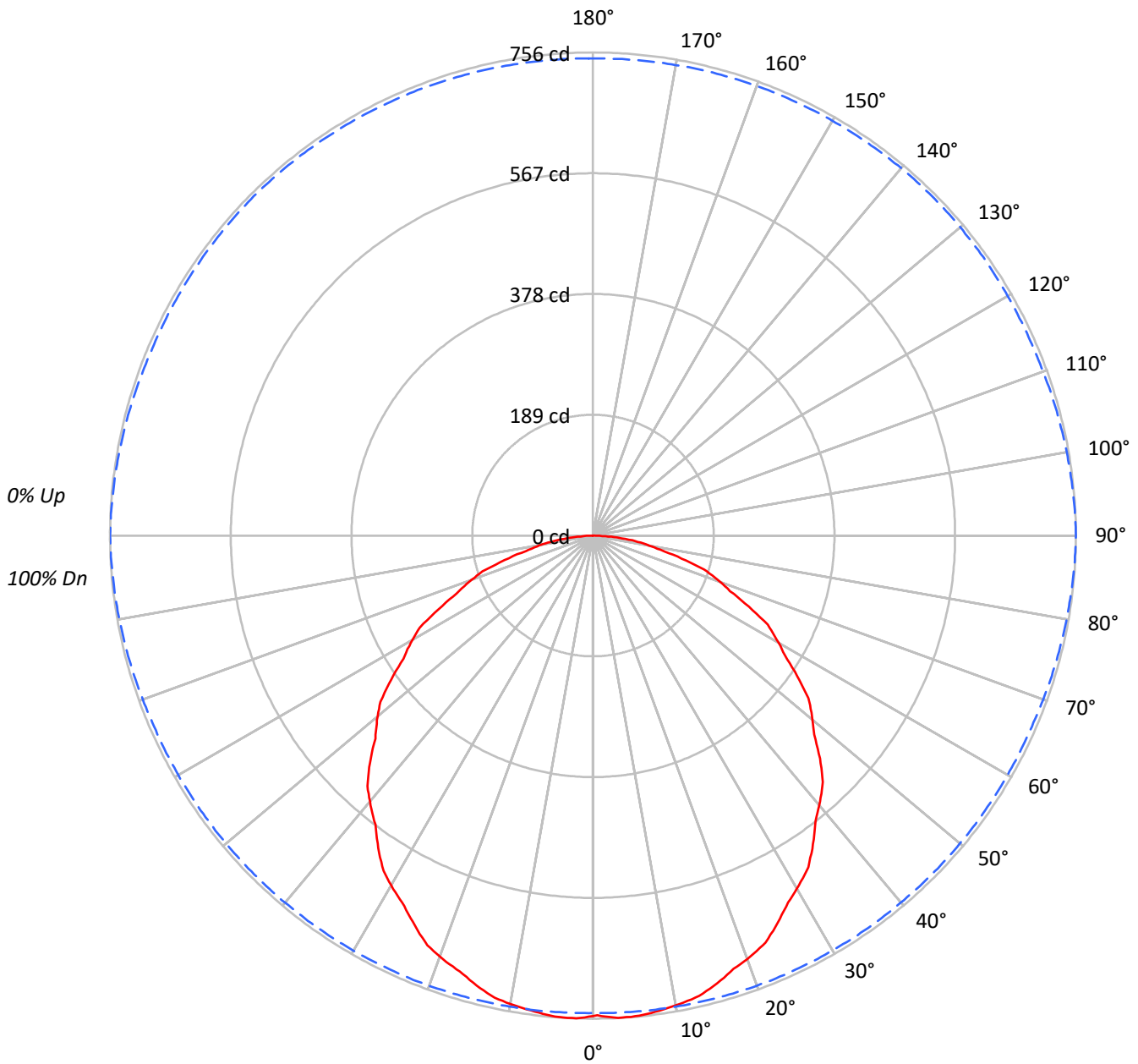
Lumens per Lamp: N/A
Luminaire Lumens: 2095.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 21.1
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



TEST NUMBER: P522423
CATALOG NUMBER: SQW-F-OU-050D-92765-1D-UNV-STD-W-4 (6500K)

Luminous Intensity Polar Plot



— Vertical Plane Through 90° Lateral - - - Horizontal Cone Through 2.5° Vertical



TEST NUMBER: P522423

CATALOG NUMBER: SQW-F-OU-050D-92765-1D-UNV-STD-W-4 (6500K)

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	55	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	42	36	48	41	36	46	40	35	33
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	57	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°	12124	12124	12124
5°	12118	12238	12065
10°	12099	12222	12013
15°	12085	12157	11925
20°	12000	12091	11778
25°	11851	11965	11583
30°	11682	11842	11423
35°	11548	11696	11211
40°	11333	11535	11017
45°	11129	11373	10762
50°	10844	11165	10492
55°	10612	10914	10100
60°	10308	10689	9720
65°	9738	10231	9165
70°	9201	9758	8545
75°	8484	8952	7817
80°	7373	7866	6574
85°	5558	6150	4965



TEST NUMBER: P522423

CATALOG NUMBER: SQW-F-OU-050D-92765-1D-UNV-STD-W-4 (6500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	3.4
10°-20°	203.0	9.7
20°-30°	305.4	14.6
30°-40°	364.6	17.4
40°-50°	375.0	17.9
50°-60°	337.4	16.1
60°-70°	255.2	12.2
70°-80°	145.1	6.9
80°-90°	38.4	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°	579.4	27.7
0°-40°	944.0	45.1
0°-60°	1656.4	79.1
0°-90°	2095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2095.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	751	751	751	751	751	
5°	748	748	755	748	744	71
15°	723	724	727	719	713	204
25°	665	672	672	662	650	306
35°	586	592	593	581	569	366
45°	487	494	498	482	471	375
55°	377	384	388	373	359	337
65°	255	262	268	252	240	254
75°	136	140	144	133	125	144
85°	30	34	33	30	27	37
90°	0	0	0	0	0	



TEST NUMBER: P522423

CATALOG NUMBER: SQW-F-OU-050D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9
2.5°	747.4	749.9	750.0	749.3	756.0	749.3	750.9	749.1	746.6
5°	747.7	747.7	747.7	746.8	755.1	745.7	747.7	744.4	744.4
7.5°	743.2	743.4	744.2	741.4	750.6	740.2	742.1	738.7	739.5
10°	738.0	739.1	739.1	737.1	745.5	735.0	736.9	732.7	732.7
12.5°	732.9	733.1	733.9	731.1	739.5	728.2	730.1	725.8	724.9
15°	723.0	723.0	724.1	720.0	727.3	716.8	718.7	713.4	713.4
17.5°	708.7	708.5	711.0	705.6	713.2	701.4	705.2	698.5	696.7
20°	698.4	697.3	701.6	695.4	703.7	691.2	694.1	686.6	685.5
22.5°	685.5	684.5	690.5	684.2	691.7	679.2	682.1	672.0	671.8
25°	665.2	664.1	671.6	665.3	671.6	660.1	662.0	651.2	650.2
27.5°	642.0	642.0	650.8	643.5	650.6	639.1	639.9	629.0	629.0
30°	626.6	626.6	636.3	628.9	635.2	623.7	624.5	612.7	612.7
32.5°	610.3	610.3	618.3	612.6	618.9	607.4	607.3	595.5	595.5
35°	585.9	583.8	592.3	587.1	593.4	581.9	580.6	568.8	568.8
37.5°	556.6	555.5	564.9	561.2	566.2	554.9	551.8	540.5	541.6
40°	537.7	536.7	545.2	543.2	547.3	536.9	531.3	521.7	522.7
42.5°	518.0	516.1	524.6	523.5	527.6	517.2	512.4	501.9	502.1
45°	487.4	487.4	493.8	493.9	498.1	486.6	482.0	471.3	471.3
47.5°	454.8	455.0	461.7	462.0	465.9	455.9	450.9	439.4	439.2
50°	431.7	432.7	440.2	441.4	444.5	436.1	429.5	418.8	417.7
52.5°	412.0	410.5	418.0	419.9	422.2	413.9	407.2	396.5	395.5
55°	377.0	378.1	384.5	387.7	387.7	380.4	372.8	362.0	358.8
57.5°	342.3	343.8	349.0	353.1	354.1	345.9	338.0	328.3	324.1
60°	319.2	318.2	326.7	329.9	331.0	323.6	314.9	305.2	301.0
62.5°	294.3	295.0	301.0	305.9	307.0	298.8	290.9	278.6	275.3
65°	254.9	258.1	262.4	265.7	267.8	261.5	251.7	242.0	239.9
67.5°	218.9	221.0	225.4	230.3	231.6	224.5	215.7	207.3	205.0
70°	194.9	197.0	201.4	204.6	206.7	200.4	191.7	184.2	181.0
72.5°	171.0	173.0	176.5	179.8	181.9	175.6	167.7	161.0	158.7
75°	136.0	138.1	140.3	142.5	143.5	139.3	132.8	126.4	125.3
77.5°	101.5	103.6	106.0	108.8	107.8	104.8	98.5	94.2	93.0
80°	79.3	81.4	84.6	85.7	84.6	82.5	77.1	72.8	70.7
82.5°	58.7	60.8	64.1	64.2	62.3	61.9	57.4	54.0	52.7
85°	30.0	32.1	34.3	35.3	33.2	33.2	30.0	26.8	26.8
87.5°	6.0	7.7	10.3	12.8	10.3	11.1	8.6	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)