

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: P522306

Luminaire Tested: **SQW-F-025U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522306
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-025U-075D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

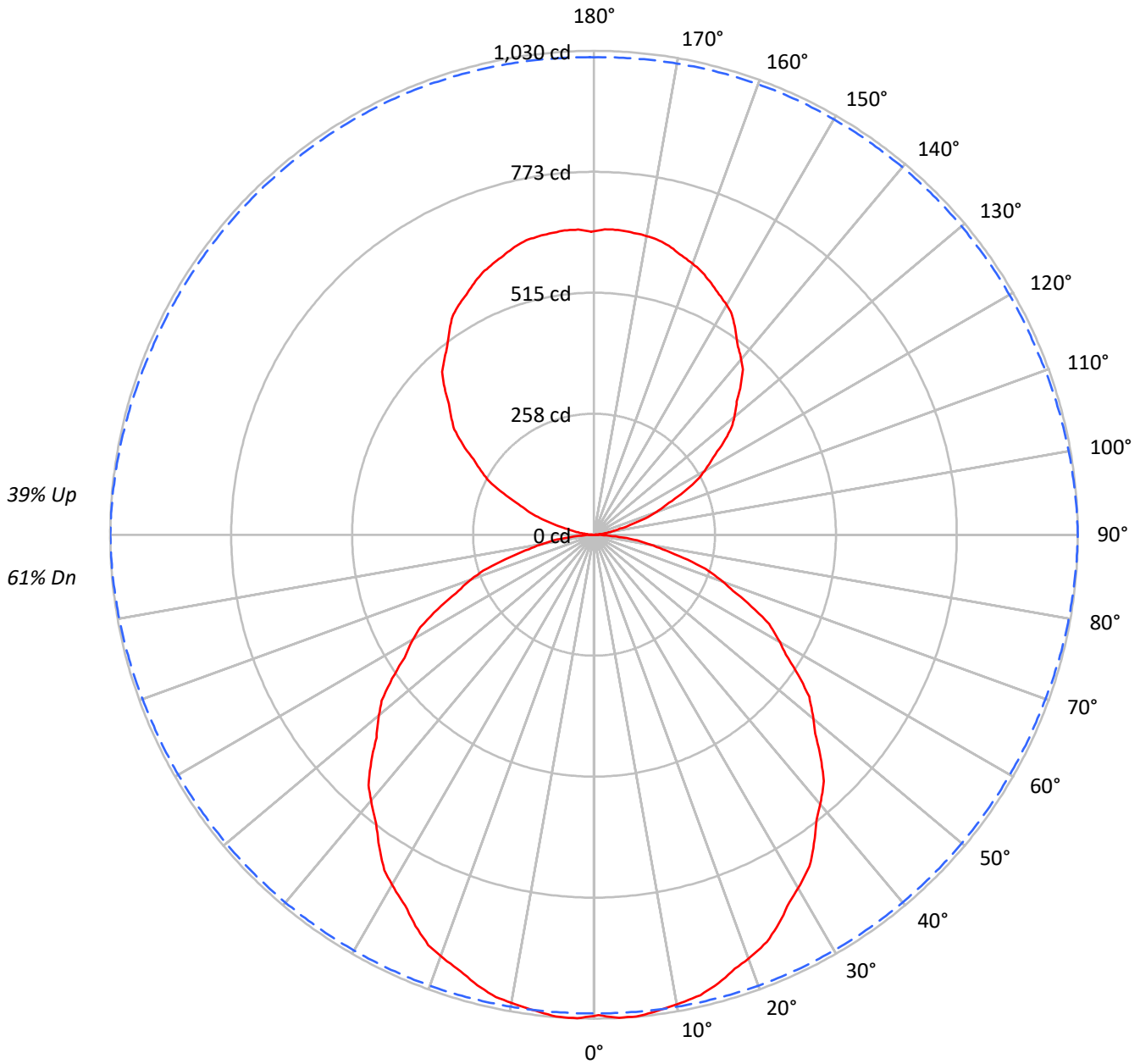
Lumens per Lamp: N/A
Luminaire Lumens: 4657.2 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 46
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	61
1	100	96	92	88	94	90	86	83	78	76	73	68	66	64	59	57	56	51
2	91	83	77	72	85	78	73	68	69	64	61	60	56	54	51	49	47	43
3	83	73	66	60	77	69	62	57	60	55	51	53	49	45	45	42	40	36
4	76	65	57	50	71	61	54	48	54	48	43	47	42	39	40	37	34	31
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	36	33	30	27
6	64	52	43	37	60	49	41	36	43	37	32	38	33	29	33	29	26	23
7	59	47	38	33	55	44	37	31	39	33	28	34	29	26	30	26	23	21
8	55	42	34	29	51	40	33	28	36	30	25	31	27	23	28	24	21	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	19	16
10	48	36	28	23	45	34	27	22	30	24	20	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16517	16517	16517
5°	16532	16678	16451
10°	16510	16624	16346
15°	16448	16565	16197
20°	16340	16460	15996
25°	16140	16319	15748
30°	15940	16127	15493
35°	15709	15906	15236
40°	15449	15681	14880
45°	15162	15458	14591
50°	14820	15172	14242
55°	14441	14863	13821
60°	13982	14564	13304
65°	13372	14097	12646
70°	12652	13454	11707
75°	11541	12227	10543
80°	10042	10879	9019
85°	7595	8522	6299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	2.1
10°-20°	276.5	5.9
20°-30°	415.9	8.9
30°-40°	496.8	10.7
40°-50°	510.7	11.0
50°-60°	459.6	9.9
60°-70°	349.8	7.5
70°-80°	198.2	4.3
80°-90°	52.1	1.1
90°-100°	17.0	0.4
100°-110°	73.4	1.6
110°-120°	209.5	4.5
120°-130°	318.5	6.8
130°-140°	344.5	7.4
140°-150°	329.1	7.1
150°-160°	270.7	5.8
160°-170°	176.9	3.8
170°-180°	61.2	1.3
0°-30°	789.2	16.9
0°-40°	1286.0	27.6
0°-60°	2256.4	48.4
0°-90°	2856.5	61.3
90°-120°	299.9	6.4
90°-150°	1291.9	27.7
90°-180°	1801.0	38.7
0°-180°	4657.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1023	1023	1023	1023	1023	
5°	1020	1020	1029	1017	1015	97
15°	984	986	991	978	969	278
25°	906	915	916	900	884	417
35°	797	808	807	790	773	498
45°	664	673	677	657	639	512
55°	513	523	528	508	491	458
65°	350	360	369	347	331	347
75°	185	191	196	180	169	196
85°	41	46	46	41	34	49
90°	0	0	0	0	0	1
95°	3	4	12	27	26	3
105°	17	43	85	58	62	20
115°	154	411	212	101	114	212
125°	616	542	339	166	143	541
135°	682	617	446	277	219	525
145°	710	664	531	393	335	445
155°	718	686	593	492	447	332
165°	701	686	636	570	543	199
175°	661	662	651	627	610	64
180°	645	645	645	645	645	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0
2.5°	1019.0	1022.1	1022.2	1022.4	1030.2	1021.6	1021.4	1021.3	1016.6
5°	1020.0	1020.0	1020.0	1018.2	1029.0	1017.3	1017.0	1015.0	1015.0
7.5°	1014.2	1012.4	1013.6	1011.4	1021.2	1008.5	1009.2	1007.0	1006.6
10°	1007.0	1006.0	1008.0	1004.2	1014.0	1001.3	1002.0	999.0	997.0
12.5°	999.0	998.0	1000.8	995.4	1006.0	993.3	993.2	989.4	989.0
15°	984.0	984.0	986.0	982.2	991.0	978.3	978.0	973.9	969.0
17.5°	966.2	964.0	968.8	962.6	971.6	957.3	958.4	952.5	947.0
20°	951.0	948.1	956.0	948.2	958.0	941.4	944.0	934.9	931.0
22.5°	933.4	931.2	940.0	933.0	942.0	926.2	927.2	915.7	912.6
25°	906.0	905.0	915.0	907.2	916.0	899.4	900.0	887.9	884.0
27.5°	875.8	875.0	886.0	878.2	885.8	870.4	870.8	857.5	852.6
30°	855.0	855.0	866.0	858.2	865.0	850.3	850.0	835.9	831.0
32.5°	832.6	831.8	842.8	836.5	842.6	827.2	826.0	812.7	807.8
35°	797.0	797.0	808.0	801.1	807.0	793.3	790.0	776.9	773.0
37.5°	759.4	758.4	769.4	765.1	770.4	755.9	751.4	737.4	736.4
40°	733.0	732.0	743.0	741.1	744.0	730.3	725.0	710.9	706.0
42.5°	705.8	706.4	715.8	713.9	717.6	703.9	698.6	683.7	681.2
45°	664.0	663.0	673.0	672.1	677.0	663.3	657.0	641.0	639.0
47.5°	620.4	620.8	629.6	630.7	633.6	621.1	613.6	597.8	595.8
50°	590.0	592.0	600.0	601.1	604.0	592.3	584.0	569.0	567.0
52.5°	560.4	561.6	569.6	573.0	573.6	563.4	553.6	539.4	537.4
55°	513.0	515.9	523.0	527.0	528.0	519.2	508.0	493.9	491.0
57.5°	465.0	467.0	476.6	481.2	481.4	472.2	461.0	447.9	443.2
60°	433.0	435.0	443.0	450.0	451.0	440.2	429.0	415.9	412.0
62.5°	400.2	402.2	410.2	417.2	418.2	408.2	396.2	383.1	380.0
65°	350.0	352.0	360.0	368.0	369.0	359.2	347.0	333.9	331.0
67.5°	300.8	302.8	310.6	317.2	319.4	308.8	297.6	285.5	281.6
70°	268.0	270.0	277.0	282.1	285.0	275.2	264.0	251.9	248.0
72.5°	233.6	234.8	241.8	247.6	248.2	240.0	229.6	219.9	216.8
75°	185.0	187.0	191.0	197.0	196.0	188.2	180.0	172.9	169.0
77.5°	138.4	140.6	144.4	148.4	149.0	141.8	134.8	127.7	125.0
80°	108.0	110.9	114.0	118.0	117.0	112.1	106.0	99.0	97.0
82.5°	80.0	82.2	86.0	89.1	86.6	83.3	78.8	71.8	69.8
85°	41.0	42.0	46.0	48.9	46.0	45.0	41.0	36.0	34.0
87.5°	8.8	10.4	13.6	17.5	14.4	15.2	12.0	8.0	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.9	0.9	0.9	1.8	2.6	9.5	10.5	9.2	9.2
95°	2.7	2.7	3.8	12.0	11.5	19.5	27.4	25.7	25.7
97.5°	5.6	6.1	8.8	35.6	26.8	26.1	37.0	41.2	42.0
100°	8.2	8.8	13.1	58.2	40.0	34.1	40.5	48.2	49.9
102.5°	11.3	12.2	21.0	91.6	56.2	40.0	46.2	53.1	55.1
105°	17.0	18.6	43.3	153.5	84.9	52.2	58.1	60.8	62.5
107.5°	25.2	31.7	116.6	215.6	120.5	69.0	75.2	74.8	76.1
110°	34.0	47.4	201.6	249.7	146.8	82.0	82.2	86.5	84.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	56.3	94.1	300.6	282.4	173.1	97.6	88.7	98.4	98.9
115°	154.5	265.4	410.9	328.2	212.0	125.2	100.8	110.2	113.9
117.5°	383.0	461.7	467.3	369.0	250.8	156.1	114.6	118.8	123.7
120°	519.3	535.4	493.6	394.0	276.6	178.1	126.0	124.5	129.8
122.5°	572.8	567.0	515.1	417.2	302.1	201.4	140.0	131.4	135.1
125°	615.7	600.7	541.8	449.4	339.1	236.3	166.5	143.0	143.0
127.5°	641.4	623.9	566.3	478.0	372.5	271.5	198.4	161.7	156.7
130°	656.3	637.5	581.2	497.8	394.4	294.3	220.8	177.9	169.8
132.5°	667.7	650.6	595.3	513.3	415.9	316.6	243.1	197.9	184.7
135°	681.5	667.0	616.8	537.0	445.9	350.0	276.6	232.5	219.1
137.5°	690.4	679.1	636.2	556.5	473.7	383.2	310.5	266.2	254.1
140°	695.2	686.1	645.9	568.0	490.8	404.6	334.2	289.0	277.7
142.5°	700.0	692.6	652.9	580.8	507.5	426.0	357.4	312.2	300.1
145°	710.0	701.4	664.5	596.2	531.4	455.9	393.3	346.0	335.3
147.5°	717.0	706.7	674.0	612.8	553.9	482.9	426.3	380.6	370.0
150°	718.7	708.0	679.3	621.6	567.5	499.5	446.5	403.0	392.8
152.5°	717.4	709.3	683.2	629.2	578.9	515.6	464.9	424.5	415.1
155°	718.2	710.7	686.4	639.3	593.3	538.1	492.5	456.7	447.0
157.5°	714.9	710.0	688.6	647.1	606.5	558.2	517.8	487.7	477.9
160°	714.9	707.4	688.6	651.6	615.7	571.3	533.6	506.5	498.5
162.5°	710.1	703.4	688.2	654.8	624.5	583.5	548.5	523.2	517.4
165°	701.2	695.8	685.9	659.0	635.5	600.1	569.7	547.2	543.4
167.5°	694.3	686.9	681.5	658.9	642.9	612.1	587.7	569.0	566.9
170°	686.4	681.6	677.1	657.7	646.4	620.7	600.4	581.7	579.6
172.5°	676.3	673.7	671.4	656.9	648.6	628.0	611.4	594.4	590.5
175°	660.7	662.8	662.3	655.1	650.8	637.4	627.2	615.1	610.3
177.5°	651.0	650.2	652.3	651.0	650.6	642.4	639.6	631.4	633.9
180°	645.3	645.3	645.3	645.3	645.3	645.3	645.3	645.3	645.3

(END OF REPORT)