

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: P522426

Luminaire Tested: **SQW-F-0U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522426
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 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

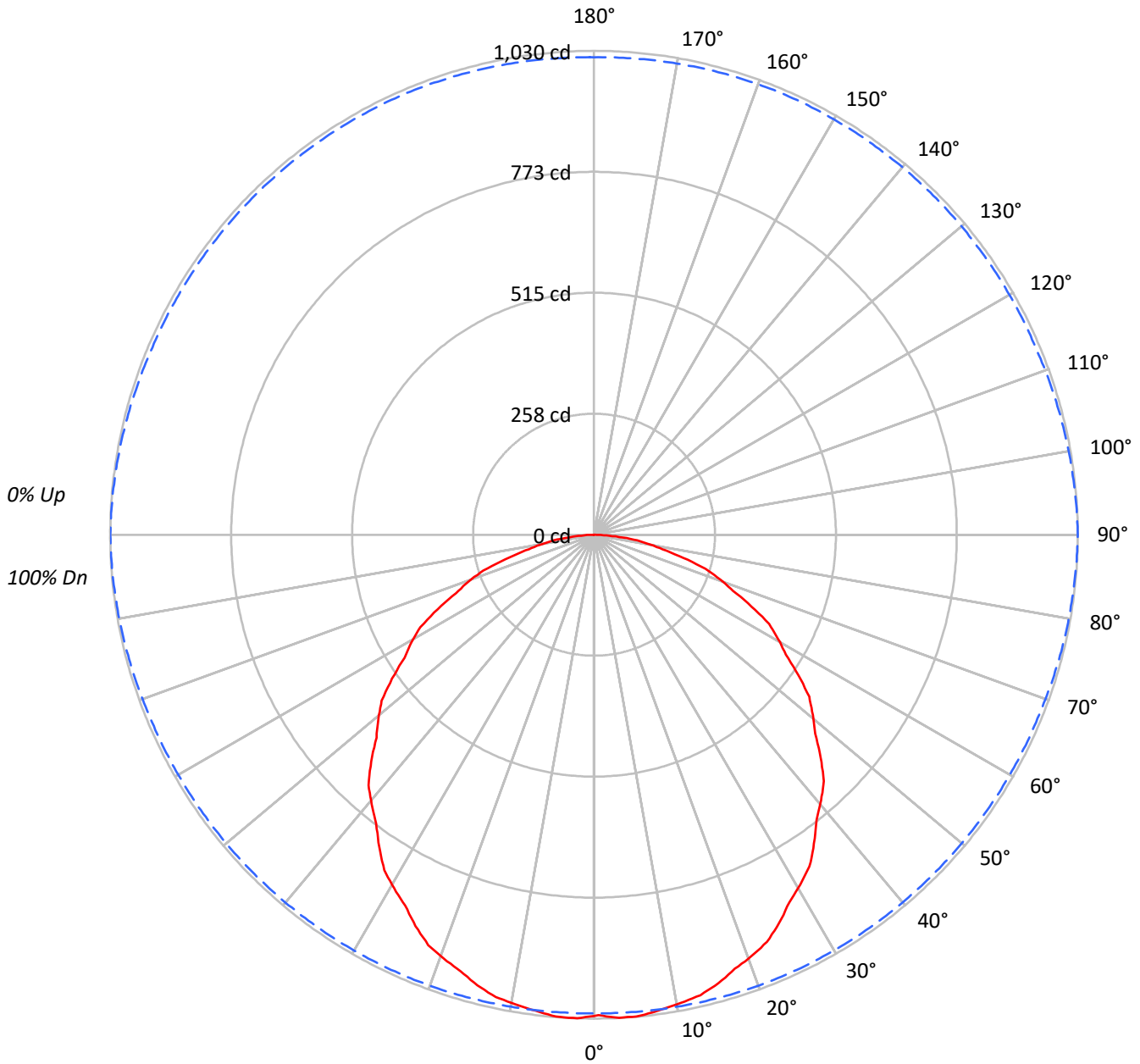
Lumens per Lamp: N/A
Luminaire Lumens: 2856.5 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 31.8
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°	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	3.4
10°-20°	276.5	9.7
20°-30°	415.9	14.6
30°-40°	496.8	17.4
40°-50°	510.7	17.9
50°-60°	459.6	16.1
60°-70°	349.8	12.2
70°-80°	198.2	6.9
80°-90°	52.1	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°	789.2	27.6
0°-40°	1286.0	45.0
0°-60°	2256.4	79.0
0°-90°	2856.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2856.5	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	50
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°	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

(END OF REPORT)