

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: P522346

Luminaire Tested: **SQW-F-050U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522346
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-050U-075D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

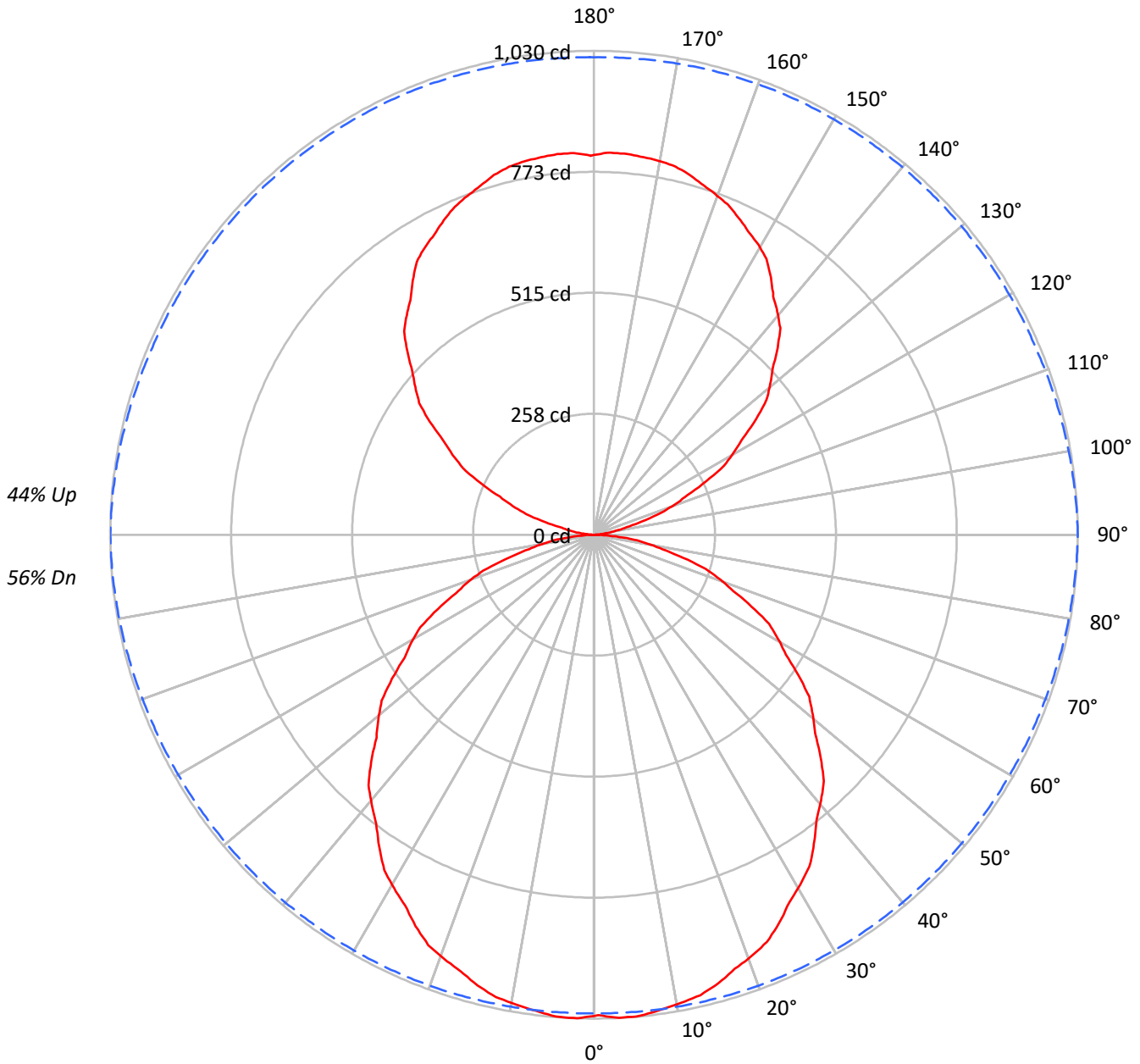
Lumens per Lamp: N/A
Luminaire Lumens: 5108.8 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 49.5
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									
RC	80					70					50					30					10				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0				
RCR																									
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56							
1	99	95	91	87	92	88	85	81	76	73	71	65	63	61	54	53	52	47							
2	90	82	76	71	83	77	71	67	66	62	58	57	53	51	48	45	43	39							
3	82	72	65	59	76	67	61	55	58	53	49	50	46	43	42	39	37	33							
4	75	64	56	50	69	60	52	47	52	46	42	44	40	36	37	34	31	28							
5	69	57	49	42	64	53	46	40	46	40	36	40	35	32	34	30	27	24							
6	63	51	43	37	59	48	40	35	42	36	31	36	31	28	30	27	24	21							
7	59	46	38	32	54	43	36	31	38	32	27	33	28	24	28	24	21	19							
8	54	42	34	28	50	39	32	27	34	29	24	30	25	22	25	22	19	17							
9	51	38	31	25	47	36	29	24	31	26	22	27	23	19	23	20	17	15							
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	22	18	16	14							

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	1.9
10°-20°	276.5	5.4
20°-30°	415.9	8.1
30°-40°	496.8	9.7
40°-50°	510.7	10.0
50°-60°	459.6	9.0
60°-70°	349.8	6.8
70°-80°	198.2	3.9
80°-90°	52.1	1.0
90°-100°	21.2	0.4
100°-110°	91.9	1.8
110°-120°	262.0	5.1
120°-130°	398.4	7.8
130°-140°	430.9	8.4
140°-150°	411.7	8.1
150°-160°	338.6	6.6
160°-170°	221.2	4.3
170°-180°	76.5	1.5
0°-30°	789.2	15.4
0°-40°	1286.0	25.2
0°-60°	2256.4	44.2
0°-90°	2856.5	55.9
90°-120°	375.1	7.3
90°-150°	1616.0	31.6
90°-180°	2252.0	44.1
0°-180°	5108.8	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	5	14	34	32	4
105°	21	54	106	73	78	25
115°	193	514	265	126	142	266
125°	770	678	424	208	179	677
135°	852	772	558	346	274	657
145°	888	831	665	492	419	556
155°	898	859	742	616	559	415
165°	877	858	795	713	680	249
175°	826	828	814	785	763	80
180°	807	807	807	807	807	



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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°	1.1	1.1	1.1	2.2	3.3	11.9	13.2	11.5	11.5
95°	3.4	3.4	4.8	15.1	14.4	24.4	34.3	32.2	32.2
97.5°	7.0	7.7	11.0	44.6	33.6	32.6	46.3	51.5	52.5
100°	10.3	10.9	16.4	72.8	50.0	42.7	50.7	60.3	62.4
102.5°	14.1	15.3	26.3	114.5	70.3	50.1	57.8	66.4	68.9
105°	21.2	23.3	54.1	192.0	106.2	65.3	72.6	76.1	78.1
107.5°	31.5	39.7	145.8	269.7	150.7	86.3	94.0	93.5	95.2
110°	42.5	59.2	252.2	312.3	183.6	102.6	102.8	108.2	106.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	70.4	117.7	376.0	353.2	216.5	122.1	111.0	123.1	123.8
115°	193.2	331.9	513.9	410.6	265.2	156.6	126.1	137.8	142.5
117.5°	479.1	577.5	584.5	461.5	313.7	195.2	143.3	148.6	154.7
120°	649.6	669.7	617.4	492.8	346.0	222.8	157.6	155.7	162.4
122.5°	716.5	709.2	644.2	521.9	377.8	251.9	175.1	164.4	169.0
125°	770.2	751.4	677.7	562.2	424.1	295.5	208.3	178.8	178.8
127.5°	802.3	780.4	708.4	597.9	465.9	339.6	248.2	202.3	196.0
130°	820.9	797.4	727.0	622.7	493.4	368.1	276.1	222.5	212.4
132.5°	835.1	813.8	744.6	642.0	520.2	396.0	304.1	247.5	231.1
135°	852.4	834.3	771.6	671.7	557.8	437.8	346.0	290.8	274.1
137.5°	863.5	849.4	795.8	696.0	592.6	479.3	388.4	332.9	317.8
140°	869.5	858.2	807.9	710.4	614.0	506.1	418.0	361.5	347.4
142.5°	875.6	866.3	816.6	726.4	634.8	532.8	447.0	390.5	375.4
145°	888.0	877.3	831.2	745.7	664.7	570.2	492.0	432.8	419.4
147.5°	896.8	883.9	843.1	766.5	692.9	604.1	533.2	476.1	462.8
150°	899.0	885.6	849.7	777.6	709.9	624.8	558.5	504.0	491.3
152.5°	897.4	887.2	854.6	787.0	724.1	644.9	581.5	530.9	519.3
155°	898.3	888.9	858.6	799.7	742.1	673.1	616.0	571.2	559.1
157.5°	894.2	888.0	861.3	809.5	758.7	698.2	647.7	610.0	597.8
160°	894.2	884.8	861.3	815.1	770.2	714.6	667.4	633.6	623.5
162.5°	888.2	879.9	860.8	819.1	781.1	729.8	686.0	654.5	647.1
165°	877.1	870.4	857.9	824.3	794.9	750.6	712.6	684.4	679.7
167.5°	868.4	859.2	852.4	824.1	804.2	765.6	735.1	711.7	709.1
170°	858.6	852.5	846.9	822.6	808.6	776.4	751.0	727.6	725.0
172.5°	846.0	842.6	839.8	821.6	811.3	785.6	764.7	743.5	738.7
175°	826.4	829.1	828.4	819.4	814.0	797.3	784.6	769.4	763.3
177.5°	814.3	813.2	816.0	814.3	813.8	803.6	800.1	789.7	792.9
180°	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2

(END OF REPORT)