

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: P522343

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

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522343
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-050D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

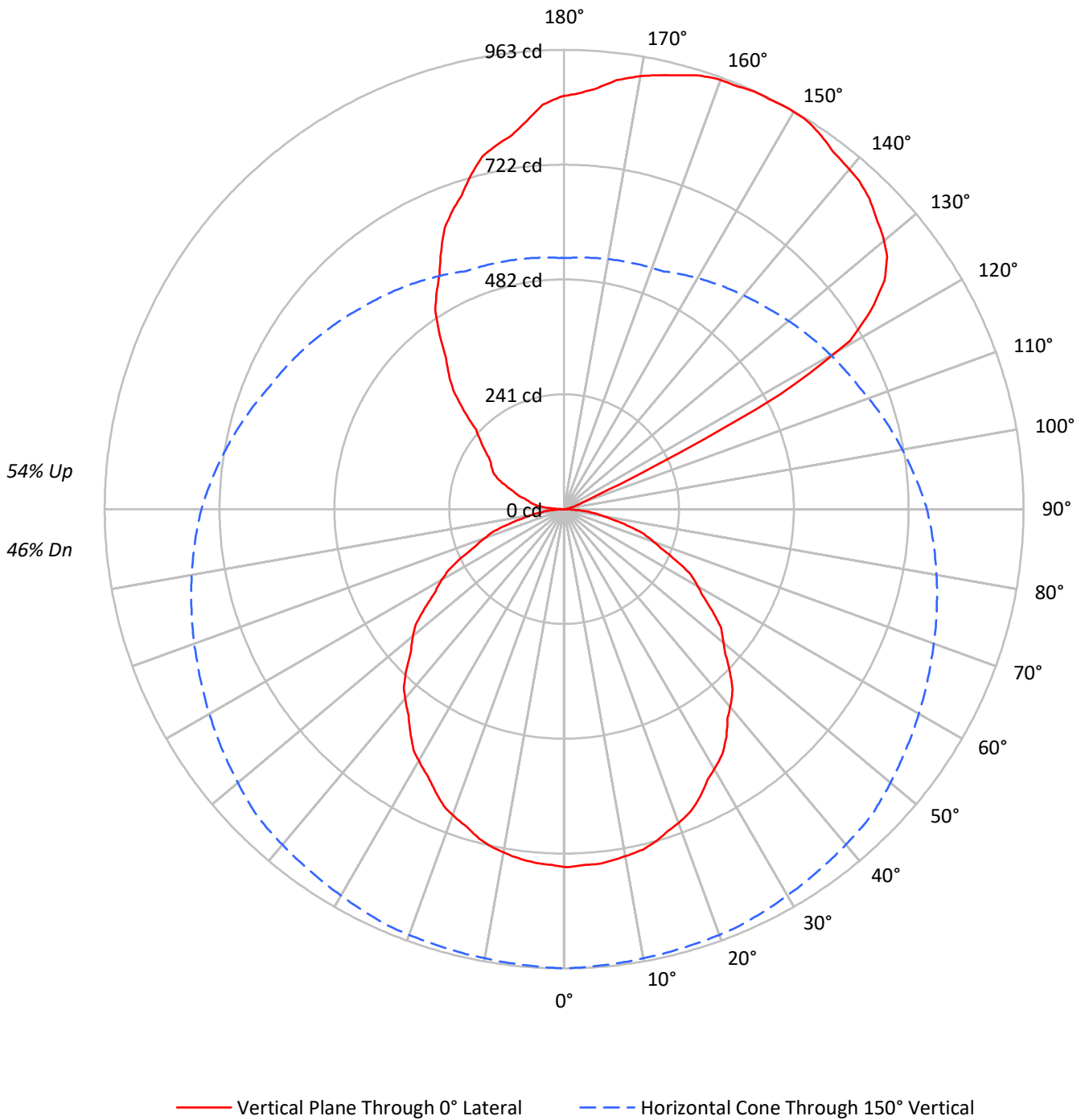
Lumens per Lamp: N/A
Luminaire Lumens: 4507.5 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 38.7
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





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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	50	30	10	0	
RCR																						
0	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	46				
1	97	93	89	85	89	85	82	79	71	69	67	58	57	55	47	45	44	39				
2	88	81	74	69	81	74	69	64	62	58	55	51	48	46	41	39	37	32				
3	80	71	63	58	73	65	59	54	55	50	46	45	42	39	36	34	32	27				
4	73	63	55	49	67	58	51	45	49	43	39	40	36	33	32	29	27	23				
5	67	56	47	41	61	51	44	39	43	38	34	36	32	28	29	26	23	20				
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18				
7	57	45	37	31	52	42	34	29	35	30	26	29	25	22	24	21	18	16				
8	53	41	33	28	49	38	31	26	32	27	23	27	23	19	22	19	16	14				
9	49	37	30	25	45	34	28	23	29	24	20	25	20	17	20	17	15	12				
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11				

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	1.6
10°-20°	203.0	4.5
20°-30°	305.4	6.8
30°-40°	364.6	8.1
40°-50°	375.0	8.3
50°-60°	337.4	7.5
60°-70°	255.2	5.7
70°-80°	145.1	3.2
80°-90°	38.4	0.9
90°-100°	22.7	0.5
100°-110°	98.4	2.2
110°-120°	280.6	6.2
120°-130°	426.7	9.5
130°-140°	461.5	10.2
140°-150°	441.0	9.8
150°-160°	362.7	8.0
160°-170°	237.0	5.3
170°-180°	82.0	1.8
0°-30°	579.4	12.9
0°-40°	944.0	20.9
0°-60°	1656.4	36.7
0°-90°	2095.0	46.5
90°-120°	401.7	8.9
90°-150°	1730.9	38.4
90°-180°	2413.0	53.5
0°-180°	4507.5	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	36
90°	0	0	0	0	0	1
95°	4	5	15	37	34	5
105°	23	58	114	78	84	26
115°	207	550	284	135	153	285
125°	825	726	454	223	192	725
135°	913	826	597	371	294	704
145°	951	890	712	527	449	596
155°	962	920	795	660	599	445
165°	940	919	851	763	728	267
175°	885	887	872	840	818	86
180°	865	865	865	865	865	



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CATALOG NUMBER: SQW-F-050U-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
92.5°	1.2	1.2	1.2	2.4	3.5	12.7	14.1	12.3	12.3
95°	3.7	3.7	5.1	16.1	15.4	26.2	36.7	34.5	34.5
97.5°	7.5	8.2	11.7	47.7	36.0	35.0	49.6	55.2	56.2
100°	11.0	11.7	17.6	78.0	53.6	45.7	54.3	64.6	66.8
102.5°	15.1	16.4	28.2	122.7	75.3	53.6	61.9	71.1	73.8
105°	22.8	24.9	58.0	205.6	113.8	70.0	77.8	81.5	83.7
107.5°	33.8	42.5	156.2	288.9	161.5	92.4	100.7	100.2	102.0
110°	45.5	63.4	270.1	334.5	196.7	109.9	110.1	115.9	113.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	75.5	126.1	402.8	378.3	231.9	130.7	118.9	131.8	132.6
115°	207.0	355.5	550.5	439.8	284.0	167.8	135.0	147.6	152.7
117.5°	513.2	618.5	626.1	494.3	336.0	209.1	153.5	159.1	165.7
120°	695.8	717.3	661.3	527.8	370.6	238.6	168.8	166.8	173.9
122.5°	767.4	759.7	690.1	559.0	404.7	269.8	187.6	176.1	181.0
125°	825.0	804.9	725.9	602.2	454.3	316.5	223.1	191.6	191.6
127.5°	859.3	835.9	758.8	640.5	499.1	363.7	265.8	216.7	209.9
130°	879.3	854.2	778.7	667.0	528.4	394.2	295.8	238.3	227.5
132.5°	894.5	871.7	797.5	687.7	557.2	424.2	325.7	265.1	247.5
135°	913.0	893.7	826.4	719.4	597.4	469.0	370.6	311.5	293.6
137.5°	924.9	909.9	852.4	745.5	634.7	513.4	416.0	356.6	340.4
140°	931.4	919.2	865.3	761.0	657.6	542.1	447.7	387.2	372.1
142.5°	937.9	927.9	874.7	778.1	679.9	570.7	478.8	418.3	402.1
145°	951.2	939.7	890.3	798.8	711.9	610.8	527.0	463.5	449.2
147.5°	960.6	946.8	903.1	821.0	742.2	647.0	571.2	509.9	495.7
150°	963.0	948.6	910.1	832.9	760.4	669.2	598.2	539.9	526.2
152.5°	961.2	950.3	915.4	843.0	775.6	690.8	622.8	568.7	556.2
155°	962.2	952.2	919.6	856.6	794.9	721.0	659.8	611.8	598.9
157.5°	957.8	951.2	922.6	867.0	812.6	747.9	693.7	653.4	640.3
160°	957.8	947.8	922.6	873.1	825.0	765.4	714.9	678.7	667.9
162.5°	951.4	942.5	922.0	877.3	836.7	781.7	734.8	701.0	693.1
165°	939.5	932.3	918.9	883.0	851.4	804.0	763.3	733.1	728.1
167.5°	930.2	920.3	913.0	882.8	861.4	820.0	787.4	762.4	759.5
170°	919.6	913.2	907.2	881.1	866.1	831.6	804.4	779.4	776.5
172.5°	906.1	902.6	899.5	880.1	869.0	841.4	819.1	796.4	791.2
175°	885.2	888.0	887.4	877.7	871.9	854.0	840.4	824.1	817.6
177.5°	872.2	871.1	874.0	872.2	871.6	860.7	857.0	845.9	849.3
180°	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6

(END OF REPORT)