

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: P522500

Luminaire Tested: **SQW-F-025U-075D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522500
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-025U-075D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

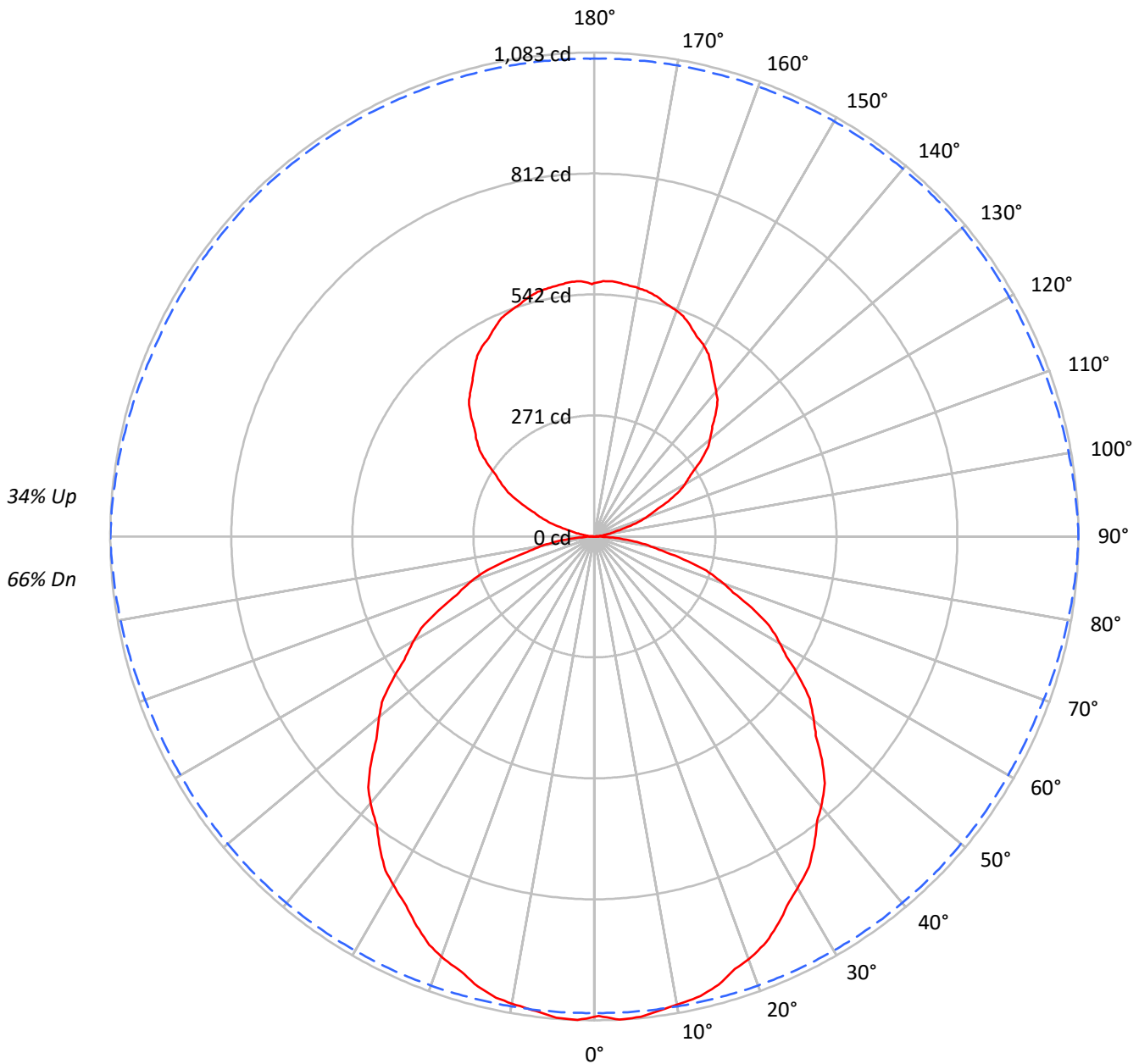
Lumens per Lamp: N/A
Luminaire Lumens: 4566.2 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.4
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: P522500
CATALOG NUMBER: SQW-F-025U-075D-93050-1D-UNV-STD-W-4 (4000K)

Luminous Intensity Polar Plot



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



TEST NUMBER: P522500

CATALOG NUMBER: SQW-F-025U-075D-93050-1D-UNV-STD-W-4 (4000K)

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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66
1	101	97	93	89	95	91	87	84	81	78	75	71	69	67	62	61	59	55
2	92	84	78	72	86	79	74	69	70	66	62	62	59	56	54	52	50	46
3	84	74	66	60	78	70	63	57	62	57	52	55	50	47	48	45	42	38
4	77	65	57	51	72	62	54	49	55	49	44	49	44	40	43	39	36	33
5	70	58	50	43	66	55	47	42	49	43	38	44	39	35	38	35	31	28
6	65	52	44	38	61	49	42	36	44	38	33	39	34	30	35	31	27	25
7	60	47	39	33	56	45	37	32	40	34	29	36	31	27	32	28	24	22
8	56	43	35	29	52	41	33	28	37	30	26	33	28	24	29	25	22	20
9	52	39	31	26	49	37	30	25	34	28	23	30	25	22	27	23	20	18
10	49	36	29	24	46	34	27	23	31	25	21	28	23	19	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	17329	17329	17329
5°	17264	17511	17363
10°	17084	17431	17382
15°	16995	17401	17265
20°	16740	17261	17173
25°	16438	17069	17033
30°	16129	16863	16770
35°	15837	16693	16513
40°	15506	16531	16318
45°	15162	16292	16061
50°	14775	15943	15739
55°	14311	15648	15305
60°	13740	15274	14883
65°	12974	14789	14285
70°	12118	14120	13596
75°	10717	12863	12358
80°	8926	11278	10897
85°	5798	8800	8429



TEST NUMBER: P522500

CATALOG NUMBER: SQW-F-025U-075D-93050-1D-UNV-STD-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	2.2
10°-20°	289.8	6.3
20°-30°	436.0	9.5
30°-40°	520.8	11.4
40°-50°	535.9	11.7
50°-60°	481.8	10.6
60°-70°	367.0	8.0
70°-80°	208.2	4.6
80°-90°	54.5	1.2
90°-100°	14.3	0.3
100°-110°	63.3	1.4
110°-120°	181.9	4.0
120°-130°	277.1	6.1
130°-140°	300.8	6.6
140°-150°	287.6	6.3
150°-160°	237.0	5.2
160°-170°	155.1	3.4
170°-180°	53.7	1.2
0°-30°	827.2	18.1
0°-40°	1348.0	29.5
0°-60°	2365.6	51.8
0°-90°	2995.4	65.6
90°-120°	259.5	5.7
90°-150°	1125.1	24.6
90°-180°	1571.0	34.4
0°-180°	4566.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1073	1073	1073	1073	1073	
5°	1065	1066	1080	1073	1071	101
15°	1017	1022	1041	1036	1033	286
25°	923	943	958	964	956	425
35°	804	825	847	852	838	502
45°	664	683	714	710	703	512
55°	508	529	556	553	544	454
65°	340	361	387	384	374	337
75°	172	186	206	204	198	183
85°	31	40	48	50	46	41
90°	0	0	0	0	0	1
95°	2	3	10	22	22	3
105°	14	38	73	50	53	17
115°	136	359	183	86	96	188
125°	542	472	292	145	123	476
135°	597	541	388	240	191	461
145°	625	582	462	342	292	392
155°	632	606	518	429	391	292
165°	618	602	555	499	474	175
175°	582	584	572	547	534	56
180°	565	565	565	565	565	



TEST NUMBER: P522500

CATALOG NUMBER: SQW-F-025U-075D-93050-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1073.3	1073.3	1073.3	1073.3	1073.3	1073.3	1073.3	1073.3	1073.3
2.5°	1066.8	1070.0	1071.7	1068.0	1083.0	1070.4	1074.9	1071.6	1069.3
5°	1065.2	1064.2	1066.2	1062.6	1080.4	1066.5	1073.3	1068.3	1071.3
7.5°	1054.9	1052.9	1056.5	1057.0	1070.5	1060.4	1064.4	1063.1	1066.6
10°	1042.0	1043.9	1050.1	1051.3	1063.2	1052.3	1057.1	1058.2	1060.2
12.5°	1036.3	1032.8	1039.5	1043.3	1055.9	1042.7	1051.5	1050.9	1054.5
15°	1016.7	1015.7	1021.8	1025.1	1041.0	1029.1	1035.9	1035.8	1032.9
17.5°	992.0	992.0	1000.1	1001.7	1018.3	1009.6	1016.3	1013.3	1012.5
20°	974.3	974.3	986.4	984.8	1004.6	996.7	1002.6	995.6	999.5
22.5°	954.0	954.8	969.4	967.0	986.0	981.2	988.0	977.8	982.5
25°	922.7	925.7	942.9	941.3	958.1	953.1	964.2	952.1	956.1
27.5°	889.4	893.5	910.8	910.6	927.2	923.6	936.3	922.3	922.9
30°	865.1	870.0	887.3	888.7	904.5	898.6	913.6	900.5	899.5
32.5°	841.7	845.8	863.1	866.1	881.9	878.3	890.2	877.0	875.2
35°	803.5	808.4	824.7	830.1	846.9	842.0	852.0	839.8	837.8
37.5°	764.0	767.2	784.5	789.2	809.3	805.2	811.5	799.8	800.0
40°	735.7	739.7	757.0	762.5	784.3	779.3	783.2	773.2	774.2
42.5°	707.4	711.4	727.9	735.8	756.0	751.0	754.1	745.7	745.9
45°	664.0	667.0	683.2	693.7	713.5	708.6	710.5	702.4	703.4
47.5°	618.9	621.1	635.9	650.6	667.0	664.8	665.2	655.2	658.1
50°	588.2	591.2	604.4	619.9	634.7	635.7	633.7	623.6	626.6
52.5°	556.7	558.8	574.4	587.5	603.2	604.9	601.3	592.1	594.3
55°	508.4	510.3	528.6	542.0	555.9	556.8	552.8	545.7	543.7
57.5°	458.6	461.6	478.6	493.3	506.9	505.2	503.1	494.8	493.2
60°	425.5	428.4	444.7	460.1	473.0	472.0	469.9	460.9	460.9
62.5°	391.5	395.3	412.3	426.2	439.0	438.8	436.0	429.3	427.7
65°	339.6	343.5	360.8	373.2	387.1	387.1	384.0	375.9	373.9
67.5°	289.9	293.8	308.0	320.9	334.7	333.5	330.7	325.6	322.8
70°	256.7	260.7	270.9	285.3	299.1	297.2	295.1	290.0	288.0
72.5°	221.1	225.9	236.1	248.9	262.0	261.6	259.5	256.8	252.5
75°	171.8	174.8	186.0	197.3	206.2	207.2	204.1	203.0	198.1
77.5°	125.1	128.9	138.1	147.9	154.4	157.6	155.8	153.3	149.6
80°	96.0	99.0	108.1	116.3	121.3	125.2	124.3	120.2	117.2
82.5°	68.5	71.5	79.0	86.4	90.6	94.5	93.6	91.1	86.5
85°	31.3	33.3	40.4	45.5	47.5	52.4	50.5	48.4	45.5
87.5°	4.9	5.6	10.5	15.3	14.6	19.3	17.0	13.7	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.4	0.4	0.8	1.3	2.1	7.9	8.8	8.0	7.6
95°	2.1	2.1	3.2	10.0	10.0	16.2	22.1	21.6	21.6
97.5°	4.7	5.3	7.4	30.5	22.8	22.1	31.6	34.8	35.1
100°	6.8	7.4	11.6	49.7	33.7	28.6	33.7	41.1	42.7
102.5°	9.4	10.3	18.3	78.4	47.6	34.2	39.6	44.9	46.5
105°	14.2	15.8	38.4	131.4	72.7	45.4	50.0	52.7	53.2
107.5°	21.4	27.2	105.2	184.8	103.1	60.1	62.8	64.6	65.2
110°	29.0	41.3	182.8	217.0	125.9	71.3	69.5	74.2	73.2

TEST NUMBER: P522500

CATALOG NUMBER: SQW-F-025U-075D-93050-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	48.8	85.0	268.3	243.5	148.6	84.6	75.8	83.5	84.2
115°	136.4	234.3	358.7	281.1	183.3	107.6	85.8	93.3	96.4
117.5°	342.3	407.3	406.3	316.0	216.6	134.7	97.9	101.4	104.9
120°	460.3	470.1	430.3	339.5	238.1	154.1	108.0	106.5	109.5
122.5°	504.1	496.2	448.4	360.2	260.0	174.4	121.0	111.9	114.6
125°	541.9	526.5	471.9	389.6	292.3	204.2	144.8	123.8	123.2
127.5°	562.9	546.7	494.9	415.2	322.0	235.3	171.9	140.5	135.8
130°	573.0	558.1	510.9	430.9	341.8	256.3	191.7	155.2	148.0
132.5°	585.2	569.1	522.2	447.0	360.8	276.1	211.5	172.9	164.4
135°	597.2	582.3	540.9	468.0	387.6	305.2	240.2	202.0	191.2
137.5°	608.0	594.3	558.0	484.5	411.9	333.9	270.5	233.3	220.1
140°	615.2	600.2	565.1	497.2	426.6	351.9	290.7	253.6	243.3
142.5°	617.7	608.5	572.7	507.8	443.0	369.2	310.9	272.6	263.1
145°	625.2	619.0	582.0	520.6	462.4	395.0	341.8	302.1	291.8
147.5°	630.0	620.7	590.5	534.4	481.4	418.0	369.8	331.7	322.1
150°	630.4	623.2	597.2	542.9	494.0	434.8	387.1	351.1	342.3
152.5°	633.8	624.9	600.6	550.2	503.3	449.0	404.4	370.9	361.3
155°	631.5	625.3	605.7	559.4	517.7	467.3	428.7	399.0	390.8
157.5°	631.5	623.9	606.3	566.6	531.6	487.3	451.5	424.0	417.9
160°	627.3	624.2	606.7	571.7	538.8	498.6	466.6	441.7	433.5
162.5°	625.6	620.4	607.6	575.2	545.1	507.8	479.7	456.1	449.9
165°	618.3	613.7	602.5	576.7	555.1	524.2	498.8	477.6	474.5
167.5°	610.0	606.4	599.0	579.3	561.7	536.5	515.1	498.0	493.8
170°	604.1	598.4	595.7	580.6	565.1	544.0	525.6	510.2	505.6
172.5°	594.0	593.3	591.0	577.3	568.1	550.7	535.3	521.2	518.2
175°	582.0	582.0	583.6	575.1	572.0	557.5	546.7	538.2	533.5
177.5°	568.1	568.5	571.9	571.4	571.9	563.6	560.5	552.5	551.6
180°	565.1	565.1	565.1	565.1	565.1	565.1	565.1	565.1	565.1

(END OF REPORT)