

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: P522369

Luminaire Tested: **SQW-F-075U-025D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522369
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-075U-025D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4473.9 lumens
Efficiency: N/A
Efficacy: 111.8 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: Semi-Indirect

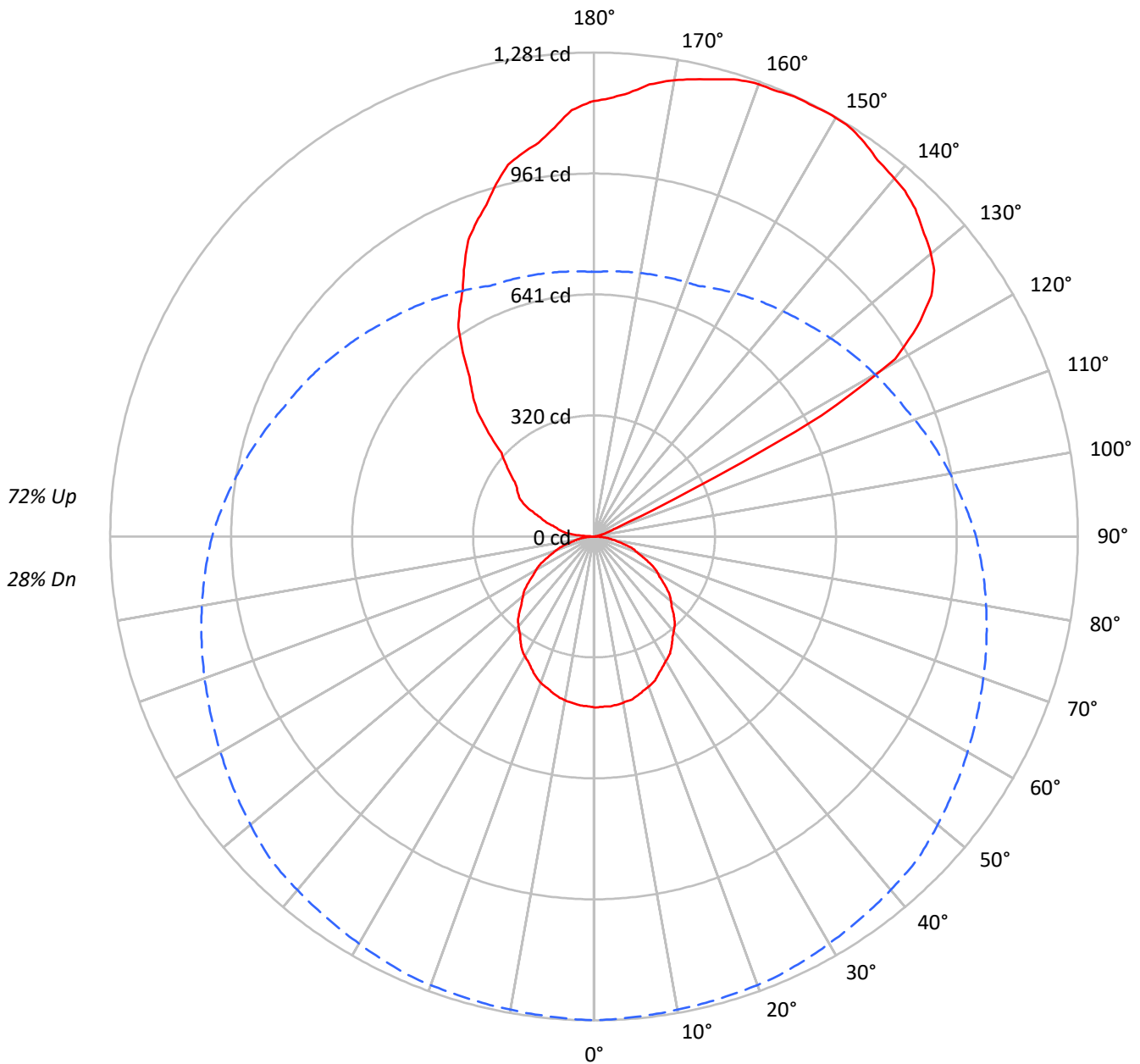
Input Watts (W): 40
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P522369

CATALOG NUMBER: SQW-F-075U-025D-92765-1D-UNV-STD-W-4 (3000K)

Luminous Intensity Polar Plot



— Vertical Plane Through 0° Lateral - - - Horizontal Cone Through 150° Vertical



TEST NUMBER: P522369

CATALOG NUMBER: SQW-F-075U-025D-92765-1D-UNV-STD-W-4 (3000K)

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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	81	83	79	76	73	62	60	58	46	45	44	32	31	30	24
2	84	77	71	66	75	69	64	60	54	51	48	41	38	36	28	27	25	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	46	63	54	47	42	42	38	34	32	29	26	22	20	18	14
5	64	53	45	39	57	48	41	36	38	33	29	28	25	23	20	18	16	12
6	59	47	40	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11
7	55	43	35	30	49	38	32	27	31	26	22	23	20	17	16	14	12	9
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	13	11	8
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	14	11	10	8
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	13	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7316	7316	7316
5°	7329	7392	7280
10°	7317	7381	7237
15°	7296	7346	7183
20°	7249	7299	7115
25°	7133	7220	6976
30°	7064	7137	6865
35°	6987	7064	6757
40°	6875	6957	6608
45°	6756	6846	6444
50°	6624	6722	6229
55°	6404	6570	6046
60°	6213	6400	5803
65°	5895	6231	5521
70°	5580	5948	5164
75°	5178	5483	4629
80°	4630	4816	4082
85°	3446	3612	2705



TEST NUMBER: P522369

CATALOG NUMBER: SQW-F-075U-025D-92765-1D-UNV-STD-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	1.0
10°-20°	122.6	2.7
20°-30°	184.3	4.1
30°-40°	220.4	4.9
40°-50°	226.5	5.1
50°-60°	202.4	4.5
60°-70°	153.7	3.4
70°-80°	87.8	2.0
80°-90°	23.2	0.5
90°-100°	30.2	0.7
100°-110°	130.9	2.9
110°-120°	373.4	8.3
120°-130°	567.7	12.7
130°-140°	614.1	13.7
140°-150°	586.7	13.1
150°-160°	482.6	10.8
160°-170°	315.3	7.0
170°-180°	109.1	2.4
0°-30°	349.7	7.8
0°-40°	570.1	12.7
0°-60°	999.0	22.3
0°-90°	1263.8	28.2
90°-120°	534.6	11.9
90°-150°	2303.1	51.5
90°-180°	3210.0	71.7
0°-180°	4473.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	453	453	453	453	453	
5°	452	452	456	451	449	43
15°	436	438	440	434	430	123
25°	400	405	405	398	392	185
35°	354	359	358	351	343	221
45°	296	300	300	291	282	228
55°	228	231	233	222	215	203
65°	154	159	163	151	144	153
75°	83	86	88	79	74	88
85°	19	22	20	18	15	22
90°	0	0	0	0	0	1
95°	5	7	20	49	46	6
105°	30	77	151	104	111	35
115°	275	732	378	180	203	379
125°	1098	966	604	297	255	965
135°	1215	1100	795	493	391	936
145°	1266	1185	947	701	598	793
155°	1280	1224	1058	878	797	592
165°	1250	1223	1133	1016	969	355
175°	1178	1181	1160	1118	1088	114
180°	1150	1150	1150	1150	1150	



TEST NUMBER: P522369

CATALOG NUMBER: SQW-F-075U-025D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1
2.5°	451.6	452.3	453.1	453.2	457.0	452.5	452.3	451.5	450.0
5°	452.2	452.2	452.2	451.3	456.1	450.3	451.2	449.2	449.2
7.5°	449.4	448.7	448.8	447.8	452.5	446.6	446.7	445.5	445.3
10°	446.3	446.3	447.3	445.4	450.2	443.5	444.3	442.4	441.4
12.5°	443.2	442.4	443.4	441.5	446.3	439.6	439.7	436.9	436.7
15°	436.5	436.5	437.5	435.6	439.5	433.7	433.6	430.6	429.7
17.5°	428.1	427.9	430.1	427.2	431.1	424.4	424.4	421.8	420.3
20°	421.9	420.9	423.8	421.0	424.8	418.1	418.9	414.1	414.1
22.5°	414.1	413.1	416.8	413.2	417.0	410.3	411.1	405.5	404.7
25°	400.4	401.3	405.3	402.4	405.3	398.6	398.4	392.6	391.6
27.5°	389.1	388.3	393.4	389.3	392.2	385.5	385.5	378.5	377.5
30°	378.9	378.9	384.8	380.0	382.8	376.1	377.0	369.1	368.2
32.5°	369.5	369.5	374.6	371.3	373.4	366.8	366.0	359.0	358.0
35°	354.5	354.5	359.4	356.5	358.4	351.7	350.6	342.8	342.8
37.5°	337.9	337.1	341.8	339.9	341.8	335.3	333.0	326.2	325.2
40°	326.2	326.2	330.1	328.2	330.1	324.4	321.3	314.4	313.5
42.5°	313.7	313.7	318.4	316.5	318.4	311.9	308.8	301.9	301.0
45°	295.9	295.9	299.8	298.9	299.8	294.1	291.0	283.2	282.2
47.5°	277.0	276.2	279.9	280.1	281.6	275.3	271.3	263.8	262.9
50°	263.7	263.7	266.6	267.6	267.6	262.8	258.8	249.0	248.0
52.5°	248.0	248.8	251.8	252.8	253.5	247.2	243.2	235.7	234.8
55°	227.5	226.6	231.4	232.4	233.4	227.7	221.7	215.8	214.8
57.5°	206.4	206.3	210.4	211.5	212.3	207.5	201.6	194.9	193.8
60°	192.4	191.4	196.3	198.2	198.2	193.5	187.5	181.6	179.7
62.5°	176.0	178.1	181.4	183.4	185.0	179.4	172.7	167.5	165.6
65°	154.3	155.3	159.2	161.2	163.1	157.4	151.4	146.4	144.5
67.5°	132.2	133.9	136.9	138.9	140.8	135.3	129.3	125.2	123.4
70°	118.2	119.1	122.1	124.1	126.0	121.2	115.2	110.3	109.4
72.5°	104.1	105.1	108.0	109.2	110.4	105.6	100.4	97.0	95.3
75°	83.0	84.0	85.9	86.9	87.9	83.1	79.1	76.1	74.2
77.5°	63.1	63.1	65.0	65.8	65.8	63.0	59.2	56.4	54.9
80°	49.8	49.8	51.8	51.8	51.8	48.9	45.9	43.9	43.9
82.5°	36.5	37.3	39.3	39.2	38.5	36.4	34.2	32.2	32.2
85°	18.6	19.5	21.5	21.4	19.5	19.5	17.6	16.6	14.6
87.5°	4.7	5.5	7.0	7.8	6.3	6.3	4.7	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.6	1.6	1.6	3.2	4.7	16.9	18.8	16.4	16.4
95°	4.9	4.9	6.8	21.5	20.5	34.8	48.8	45.9	45.9
97.5°	10.0	10.9	15.6	63.5	47.9	46.5	66.0	73.5	74.8
100°	14.6	15.6	23.4	103.8	71.3	60.8	72.3	86.0	88.9
102.5°	20.1	21.8	37.5	163.2	100.2	71.4	82.4	94.6	98.2
105°	30.3	33.1	77.1	273.6	151.4	93.1	103.5	108.5	111.3
107.5°	44.9	56.6	207.8	384.4	214.8	123.0	134.0	133.3	135.7
110°	60.5	84.4	359.4	445.1	261.7	146.2	146.5	154.2	151.4



TEST NUMBER: P522369

CATALOG NUMBER: SQW-F-075U-025D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	100.4	167.8	535.9	503.4	308.6	174.0	158.2	175.4	176.4
115°	275.4	473.0	732.4	585.1	377.9	223.2	179.7	196.4	203.1
117.5°	682.8	823.0	833.0	657.7	447.1	278.3	204.3	211.7	220.5
120°	925.8	954.4	879.9	702.3	493.2	317.5	224.6	221.9	231.4
122.5°	1021.1	1010.8	918.2	743.8	538.5	359.0	249.6	234.3	240.8
125°	1097.7	1070.9	965.8	801.2	604.5	421.2	296.9	254.9	254.9
127.5°	1143.4	1112.2	1009.6	852.2	664.1	484.0	353.7	288.3	279.3
130°	1169.9	1136.5	1036.1	887.4	703.1	524.6	393.6	317.1	302.7
132.5°	1190.2	1159.9	1061.1	915.0	741.4	564.4	433.4	352.8	329.3
135°	1214.8	1189.1	1099.6	957.3	794.9	624.0	493.2	414.5	390.6
137.5°	1230.7	1210.6	1134.2	992.0	844.5	683.2	553.5	474.5	452.9
140°	1239.3	1223.0	1151.4	1012.5	875.0	721.3	595.7	515.2	495.1
142.5°	1247.9	1234.7	1163.9	1035.3	904.7	759.4	637.1	556.5	535.0
145°	1265.6	1250.4	1184.6	1062.8	947.3	812.6	701.2	616.8	597.7
147.5°	1278.1	1259.8	1201.6	1092.3	987.5	860.9	760.0	678.5	659.6
150°	1281.3	1262.2	1210.9	1108.2	1011.7	890.5	795.9	718.3	700.2
152.5°	1278.9	1264.4	1218.0	1121.6	1032.0	919.2	828.7	756.7	740.0
155°	1280.3	1266.9	1223.6	1139.7	1057.6	959.3	877.9	814.1	796.9
157.5°	1274.4	1265.6	1227.5	1153.6	1081.3	995.1	923.1	869.3	852.0
160°	1274.4	1261.1	1227.5	1161.6	1097.7	1018.4	951.2	903.0	888.7
162.5°	1265.8	1254.0	1226.8	1167.3	1113.3	1040.1	977.7	932.8	922.3
165°	1250.0	1240.5	1222.7	1174.8	1132.8	1069.8	1015.6	975.4	968.8
167.5°	1237.7	1224.5	1214.8	1174.6	1146.1	1091.1	1047.7	1014.4	1010.6
170°	1223.6	1215.0	1207.0	1172.4	1152.3	1106.5	1070.3	1037.0	1033.2
172.5°	1205.7	1200.9	1196.9	1171.0	1156.3	1119.6	1089.8	1059.6	1052.7
175°	1177.7	1181.6	1180.7	1167.8	1160.2	1136.3	1118.2	1096.5	1087.9
177.5°	1160.6	1159.0	1162.9	1160.5	1159.8	1145.3	1140.2	1125.5	1130.1
180°	1150.4	1150.4	1150.4	1150.4	1150.4	1150.4	1150.4	1150.4	1150.4

(END OF REPORT)