

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: P522435

Luminaire Tested: **SQW-F-0U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522435
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-100D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

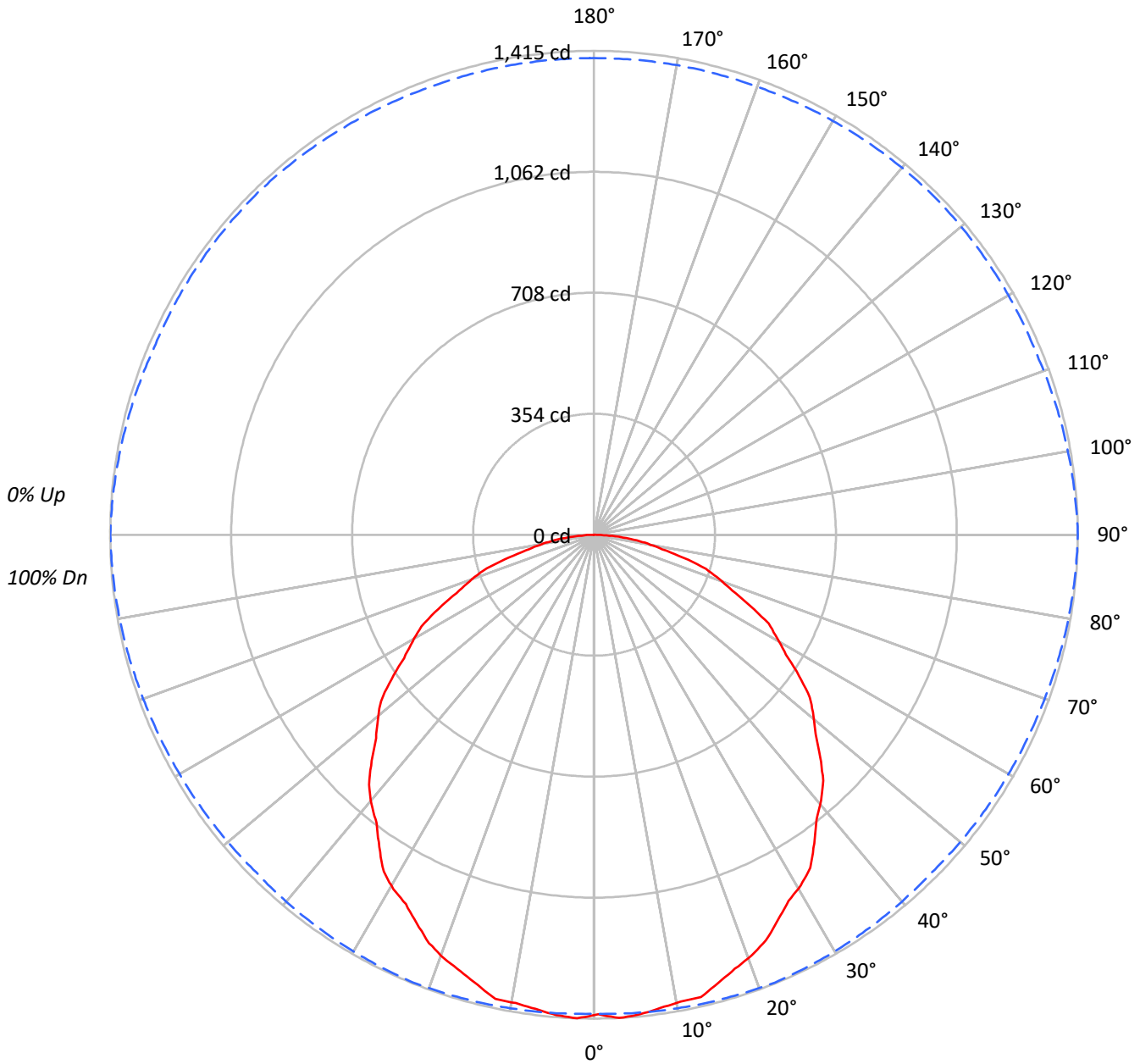
Lumens per Lamp: N/A
Luminaire Lumens: 3922.1 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 44.5
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					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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84				84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70				70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59				59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50				50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43				43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38				38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33				33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30				30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27				27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22656	22656	22656
5°	22924	22841	22494
10°	22689	22773	22454
15°	22775	22740	22315
20°	22239	22588	21801
25°	22205	22258	21442
30°	21927	22212	21226
35°	21415	21857	20854
40°	21205	21570	20432
45°	20996	21183	20066
50°	20258	20896	19489
55°	20065	20496	18804
60°	19172	19895	18119
65°	18323	19259	17196
70°	17500	18364	16055
75°	16263	16899	14485
80°	13919	14775	12115
85°	10374	11504	8299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	3.4
10°-20°	379.8	9.7
20°-30°	570.2	14.5
30°-40°	681.6	17.4
40°-50°	701.4	17.9
50°-60°	631.4	16.1
60°-70°	479.6	12.2
70°-80°	273.6	7.0
80°-90°	71.6	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°	1082.8	27.6
0°-40°	1764.4	45.0
0°-60°	3097.2	79.0
0°-90°	3922.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3922.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1403	1403	1403	1403	1403	
5°	1414	1403	1409	1385	1388	133
15°	1362	1354	1360	1341	1335	381
25°	1246	1254	1249	1236	1204	573
35°	1086	1113	1109	1084	1058	684
45°	920	927	928	907	879	702
55°	713	725	728	699	668	631
65°	480	493	504	469	450	477
75°	261	268	271	247	232	273
85°	56	64	62	56	45	69
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°	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2
2.5°	1401.6	1412.7	1397.5	1401.9	1415.4	1398.7	1403.2	1395.0	1394.3
5°	1414.4	1397.5	1403.2	1395.4	1409.3	1396.4	1384.9	1399.9	1387.9
7.5°	1390.4	1379.4	1401.8	1390.5	1397.9	1389.2	1390.4	1382.0	1381.8
10°	1383.9	1376.9	1383.9	1384.0	1389.0	1377.0	1375.7	1366.6	1369.6
12.5°	1365.1	1374.9	1364.3	1377.6	1388.1	1367.4	1359.4	1362.6	1368.0
15°	1362.5	1359.5	1354.3	1350.5	1360.4	1336.5	1341.1	1332.0	1335.0
17.5°	1321.1	1326.7	1329.3	1326.0	1335.0	1313.3	1308.1	1308.1	1309.5
20°	1294.3	1306.2	1314.6	1305.7	1314.6	1297.7	1294.3	1281.7	1268.8
22.5°	1279.6	1277.2	1294.3	1276.4	1288.6	1267.6	1277.1	1255.3	1262.3
25°	1246.4	1236.4	1253.5	1243.5	1249.4	1232.5	1236.2	1209.6	1203.6
27.5°	1202.2	1202.2	1212.6	1208.4	1212.6	1199.0	1195.3	1171.0	1168.6
30°	1176.1	1168.2	1187.3	1178.5	1191.4	1159.5	1161.9	1142.4	1138.5
32.5°	1141.1	1144.3	1157.2	1145.9	1161.3	1131.0	1136.6	1106.8	1111.6
35°	1086.5	1092.5	1113.0	1098.0	1108.9	1091.0	1084.5	1065.0	1058.0
37.5°	1051.7	1042.5	1052.5	1053.4	1056.8	1037.1	1029.9	1006.3	1008.5
40°	1006.1	1004.1	1018.3	1022.4	1023.4	1004.5	998.9	970.4	969.4
42.5°	964.5	966.5	978.4	983.3	983.5	964.6	963.9	933.0	936.8
45°	919.5	916.5	926.6	925.7	927.7	907.8	907.3	877.8	878.8
47.5°	848.9	855.2	862.1	864.1	871.9	854.9	842.9	819.4	815.9
50°	806.5	818.4	819.7	829.0	831.9	811.0	801.4	781.9	775.9
52.5°	769.0	775.4	780.6	786.6	791.2	771.9	757.4	738.8	737.7
55°	712.8	708.8	725.0	723.1	728.1	713.1	698.6	678.0	668.0
57.5°	640.1	647.9	651.5	659.1	662.5	646.2	633.4	611.6	610.8
60°	593.7	604.6	605.9	619.1	616.1	602.1	588.6	569.0	561.1
62.5°	551.3	554.3	562.7	571.9	572.9	557.4	547.0	525.9	520.3
65°	479.6	485.6	492.9	505.1	504.1	493.1	469.4	458.1	450.1
67.5°	414.6	416.6	426.5	432.3	436.2	421.1	407.5	391.6	388.2
70°	370.7	368.7	380.8	385.0	389.0	377.0	363.5	349.1	340.1
72.5°	322.6	324.6	333.6	340.2	342.6	330.6	316.3	305.2	299.4
75°	260.7	258.7	267.8	271.9	270.9	261.9	247.4	240.1	232.2
77.5°	192.1	196.0	201.4	205.1	203.7	197.7	186.3	175.3	171.9
80°	149.7	153.7	159.9	161.8	158.9	152.9	145.6	135.3	130.3
82.5°	110.6	113.0	119.1	122.7	118.1	114.5	108.1	100.3	94.5
85°	56.0	58.0	64.2	66.1	62.1	62.1	56.0	48.8	44.8
87.5°	13.0	13.8	18.7	24.3	19.6	21.1	16.3	12.1	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)