

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: P522439

Luminaire Tested: **SQW-F-0U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522439
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 (6500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

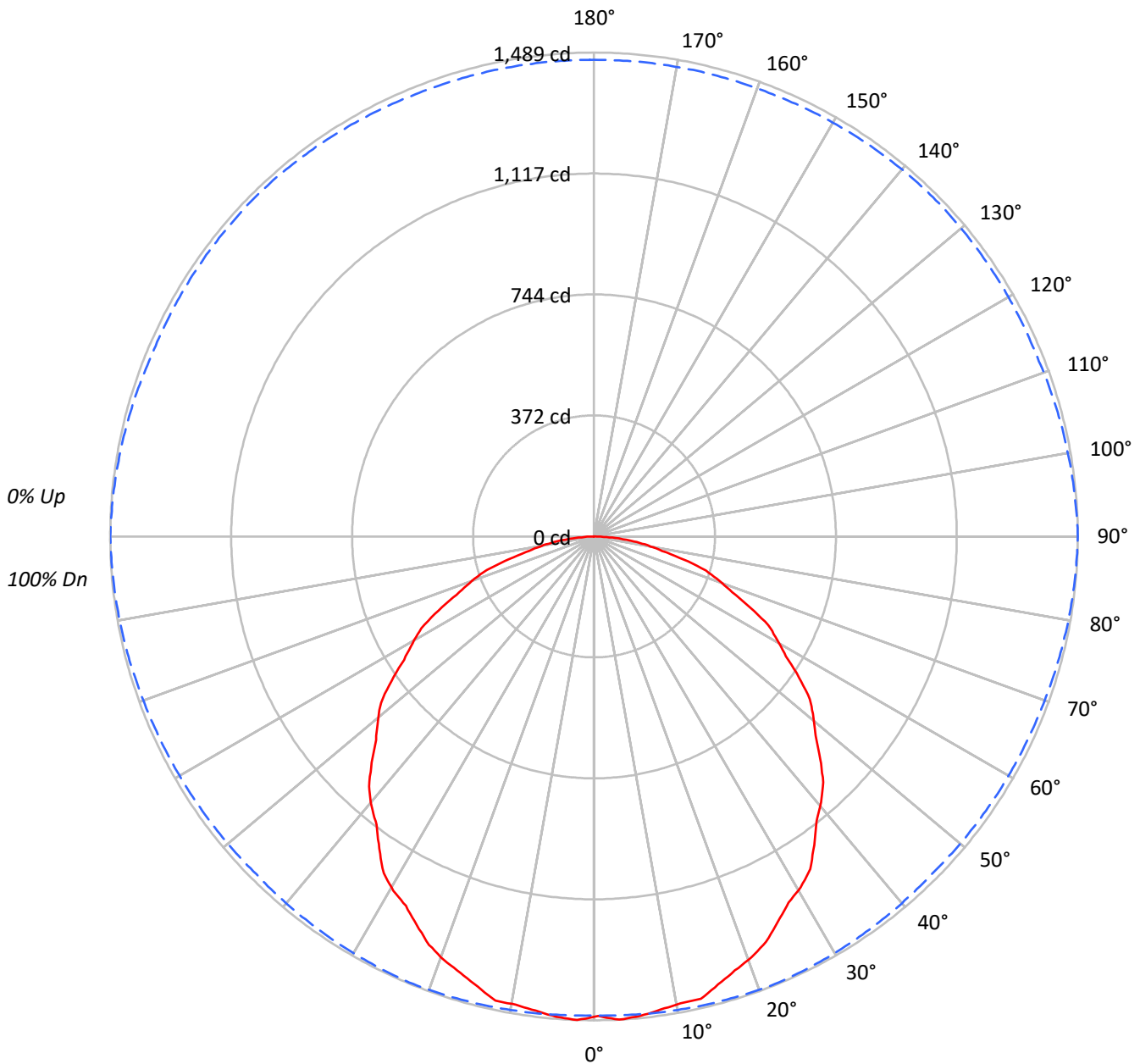
Lumens per Lamp: N/A
Luminaire Lumens: 4125.6 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 44.2
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91		94	91	88		90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75		82	77	73		79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63		72	67	62		70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54		64	58	53		62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46		58	51	46		56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41		52	45	40		51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36		48	41	36		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		44	37	32		42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23831	23831	23831
5°	24114	24026	23663
10°	23866	23953	23620
15°	23957	23920	23473
20°	23392	23759	22931
25°	23357	23414	22556
30°	23066	23364	22326
35°	22527	22992	21936
40°	22306	22689	21492
45°	22085	22281	21107
50°	21308	21981	20502
55°	21106	21560	19781
60°	20166	20925	19059
65°	19274	20256	18086
70°	18406	19317	16891
75°	17105	17773	15234
80°	14644	15537	12748
85°	10911	12097	8725



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	3.4
10°-20°	399.5	9.7
20°-30°	599.8	14.5
30°-40°	717.0	17.4
40°-50°	737.8	17.9
50°-60°	664.2	16.1
60°-70°	504.4	12.2
70°-80°	287.8	7.0
80°-90°	75.3	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°	1139.0	27.6
0°-40°	1856.0	45.0
0°-60°	3258.0	79.0
0°-90°	4125.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4125.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1476	1476	1476	1476	1476	
5°	1488	1476	1482	1457	1460	140
15°	1433	1425	1431	1411	1404	400
25°	1311	1319	1314	1300	1266	602
35°	1143	1171	1166	1141	1113	720
45°	967	975	976	954	924	739
55°	750	763	766	735	703	664
65°	504	518	530	494	473	502
75°	274	282	285	260	244	287
85°	59	68	65	59	47	73
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°	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0
2.5°	1474.3	1486.0	1470.0	1474.6	1488.9	1471.3	1476.0	1467.4	1466.6
5°	1487.8	1470.0	1476.0	1467.8	1482.4	1468.8	1456.7	1472.5	1460.0
7.5°	1462.5	1451.0	1474.5	1462.7	1470.5	1461.2	1462.5	1453.7	1453.5
10°	1455.7	1448.3	1455.7	1455.8	1461.0	1448.5	1447.1	1437.5	1440.7
12.5°	1436.0	1446.2	1435.1	1449.1	1460.2	1438.4	1430.0	1433.3	1439.0
15°	1433.2	1430.0	1424.6	1420.6	1431.0	1405.9	1410.7	1401.1	1404.3
17.5°	1389.7	1395.6	1398.3	1394.8	1404.3	1381.4	1376.0	1376.0	1377.5
20°	1361.4	1374.0	1382.8	1373.4	1382.8	1365.0	1361.4	1348.2	1334.6
22.5°	1346.0	1343.5	1361.4	1342.6	1355.4	1333.4	1343.4	1320.4	1327.8
25°	1311.1	1300.6	1318.6	1308.0	1314.3	1296.5	1300.4	1272.4	1266.1
27.5°	1264.6	1264.6	1275.5	1271.1	1275.5	1261.3	1257.3	1231.7	1229.2
30°	1237.2	1228.8	1248.9	1239.6	1253.2	1219.7	1222.2	1201.7	1197.5
32.5°	1200.3	1203.7	1217.2	1205.4	1221.5	1189.7	1195.6	1164.2	1169.2
35°	1142.9	1149.2	1170.7	1154.9	1166.5	1147.6	1140.8	1120.2	1112.9
37.5°	1106.3	1096.6	1107.1	1108.1	1111.6	1090.9	1083.3	1058.5	1060.9
40°	1058.3	1056.2	1071.1	1075.4	1076.5	1056.6	1050.8	1020.8	1019.7
42.5°	1014.6	1016.7	1029.1	1034.3	1034.5	1014.6	1013.9	981.5	985.4
45°	967.2	964.1	974.7	973.7	975.8	954.9	954.4	923.3	924.4
47.5°	892.9	899.6	906.8	908.9	917.1	899.3	886.7	862.0	858.2
50°	848.3	860.9	862.3	872.0	875.1	853.1	843.0	822.5	816.2
52.5°	808.9	815.6	821.1	827.5	832.3	812.0	796.7	777.2	775.9
55°	749.8	745.6	762.6	760.6	765.9	750.2	734.8	713.1	702.7
57.5°	673.3	681.5	685.3	693.3	696.9	679.7	666.2	643.3	642.5
60°	624.5	636.0	637.3	651.2	648.0	633.4	619.1	598.6	590.2
62.5°	579.9	583.1	591.9	601.6	602.6	586.3	575.4	553.2	547.3
65°	504.5	510.8	518.4	531.3	530.2	518.7	493.8	481.8	473.4
67.5°	436.2	438.3	448.6	454.7	458.9	443.0	428.7	411.9	408.3
70°	389.9	387.8	400.6	405.0	409.2	396.6	382.4	367.2	357.8
72.5°	339.3	341.4	350.9	357.8	360.3	347.8	332.7	321.0	314.9
75°	274.2	272.1	281.7	286.0	284.9	275.5	260.3	252.6	244.2
77.5°	202.0	206.2	211.9	215.7	214.2	207.9	196.0	184.4	180.8
80°	157.5	161.6	168.2	170.2	167.1	160.8	153.2	142.3	137.1
82.5°	116.3	118.8	125.3	129.1	124.3	120.5	113.8	105.5	99.4
85°	58.9	61.0	67.5	69.5	65.3	65.3	58.9	51.3	47.1
87.5°	13.7	14.5	19.7	25.6	20.6	22.2	17.1	12.8	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)