

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: P520501

Luminaire Tested: **4WSLA-125-L940-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 4WSLA-125-L940-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

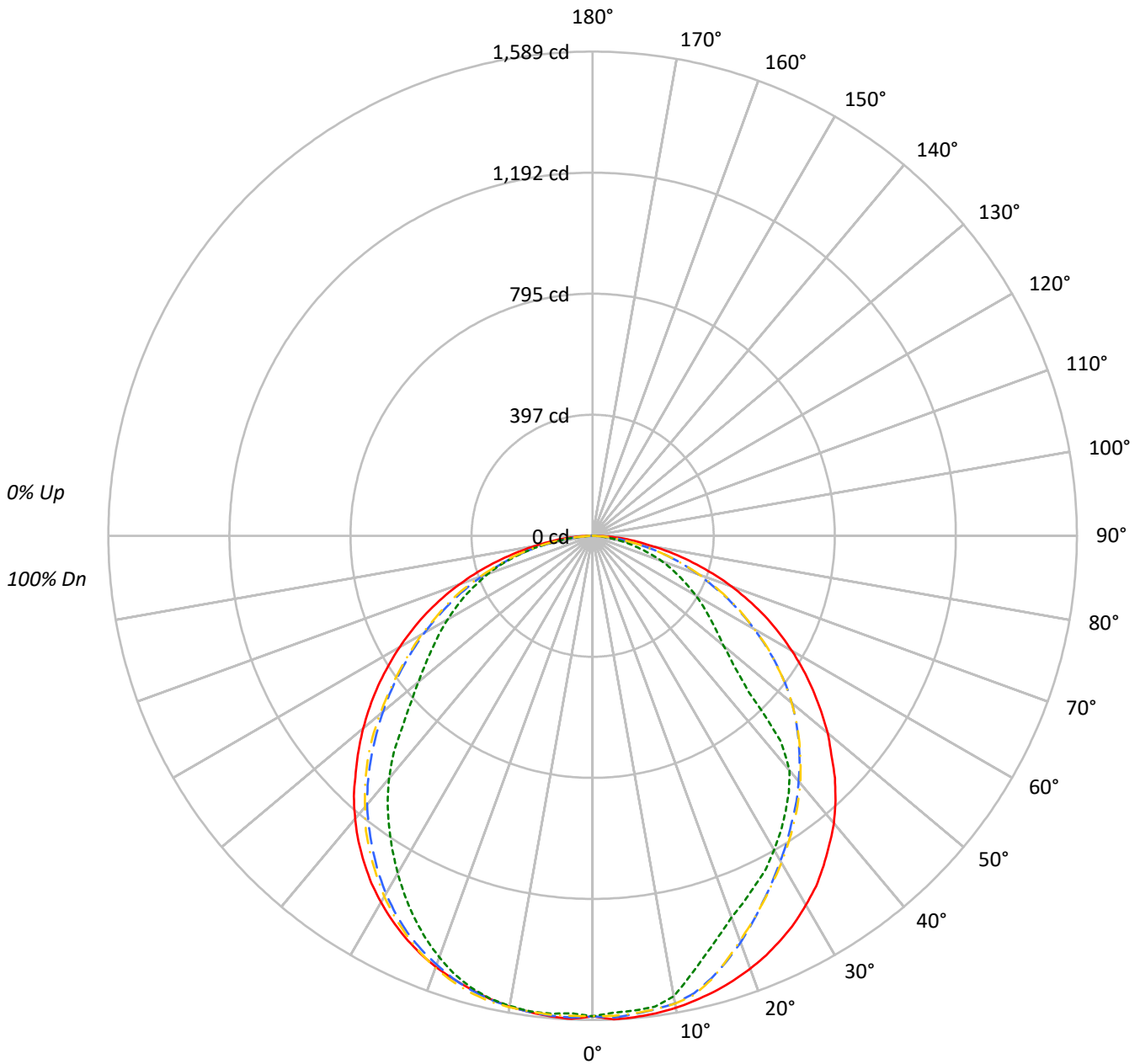
Lumens per Lamp: N/A
Luminaire Lumens: 4230.0 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 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	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	95	98	95	92	94	91	89	90	88	86	84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28			
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8486	8486	8486	8486
5°	8569	8450	8555	8505
10°	8599	8386	8576	8562
15°	8625	7942	8588	8559
20°	8658	7631	8624	8430
25°	8685	7505	8640	8218
30°	8695	7397	8632	7948
35°	8681	7253	8592	7653
40°	8653	7061	8516	7298
45°	8557	5485	8364	6696
50°	8429	4695	8223	6247
55°	8279	4397	8065	6009
60°	8122	4198	7876	5909
65°	7929	3975	7660	5839
70°	7615	3780	7295	5750
75°	7089	3325	6754	5471
80°	6292	2780	5898	4640
85°	5953	1982	5224	2661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	3.5
10°-20°	427.3	10.1
20°-30°	638.5	15.1
30°-40°	760.1	18.0
40°-50°	759.8	18.0
50°-60°	653.8	15.5
60°-70°	492.1	11.6
70°-80°	280.4	6.6
80°-90°	68.2	1.6
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°	1215.7	28.7
0°-40°	1975.8	46.7
0°-60°	3389.3	80.1
0°-90°	4230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4230.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1577	1577	1577	1577	1577	
5°	1586	1564	1584	1574	1586	151
15°	1548	1425	1541	1536	1548	437
25°	1463	1264	1455	1384	1463	674
35°	1321	1104	1308	1165	1321	827
45°	1124	721	1099	880	1124	866
55°	882	469	860	640	882	789
65°	623	312	602	458	623	615
75°	341	160	325	263	341	361
85°	96	32	85	43	96	105
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°	202.5°	225°
0°	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8
2.5°	1588.6	1574.3	1582.7	1580.2	1566.7	1571.7	1576.8	1571.7	1587.0	1573.4	1582.7
5°	1586.1	1570.9	1576.0	1570.9	1564.1	1565.8	1573.4	1568.3	1583.6	1569.2	1581.0
7.5°	1581.0	1562.4	1567.5	1565.0	1559.0	1559.9	1567.5	1563.3	1576.8	1563.3	1576.8
10°	1573.4	1554.0	1558.2	1547.2	1534.5	1543.8	1559.0	1554.8	1569.2	1554.0	1569.2
12.5°	1561.6	1542.1	1537.9	1501.5	1478.7	1496.4	1543.0	1543.0	1556.5	1542.1	1558.2
15°	1548.0	1526.9	1504.1	1449.1	1425.4	1443.1	1507.4	1529.4	1541.3	1526.9	1543.0
17.5°	1532.0	1507.4	1463.5	1399.2	1377.2	1394.9	1460.9	1509.1	1524.4	1509.1	1523.5
20°	1511.7	1482.9	1420.3	1346.7	1332.3	1348.4	1414.4	1484.6	1505.7	1487.1	1497.3
22.5°	1489.7	1455.0	1372.1	1306.1	1299.3	1309.5	1369.6	1454.1	1482.1	1462.6	1469.4
25°	1462.6	1422.0	1323.9	1268.9	1263.8	1269.7	1325.6	1418.6	1455.0	1434.7	1437.2
27.5°	1433.8	1389.9	1278.2	1237.6	1232.5	1235.1	1281.6	1378.9	1423.7	1403.4	1399.2
30°	1399.2	1351.8	1232.5	1195.3	1190.2	1199.5	1239.3	1338.3	1389.0	1368.7	1356.0
32.5°	1364.5	1310.3	1187.7	1158.9	1148.8	1157.2	1195.3	1296.0	1350.9	1329.8	1308.6
35°	1321.3	1266.3	1141.2	1112.4	1103.9	1113.2	1151.3	1252.0	1307.8	1286.7	1257.9
37.5°	1276.5	1219.8	1098.9	1072.6	1057.4	1068.4	1106.5	1206.3	1263.0	1241.0	1205.4
40°	1231.7	1170.8	1051.5	1024.4	1005.0	1021.0	1059.9	1158.1	1212.2	1191.9	1151.3
42.5°	1179.2	1121.7	1005.0	966.9	911.9	963.5	1010.0	1109.9	1159.8	1140.3	1091.2
45°	1124.2	1069.2	955.9	863.7	720.7	872.1	959.3	1059.1	1098.9	1080.2	1027.0
47.5°	1061.6	1015.1	906.0	765.6	626.8	774.0	907.7	1010.9	1041.3	1021.0	961.8
50°	1006.7	961.0	853.5	682.7	560.8	692.0	852.7	956.7	982.1	963.5	897.5
52.5°	944.1	904.3	796.9	609.1	511.8	618.4	795.2	900.9	921.2	899.2	833.2
55°	882.3	846.8	736.8	543.9	468.6	552.4	735.1	843.4	859.5	834.1	765.6
57.5°	819.7	787.6	675.0	485.6	428.9	494.9	679.3	784.2	795.2	763.0	700.4
60°	754.6	727.5	612.4	434.0	390.0	441.6	610.8	725.0	731.7	697.0	637.0
62.5°	689.4	664.9	549.9	386.6	350.2	391.7	554.1	662.4	666.6	633.6	571.8
65°	622.6	599.8	488.9	336.7	312.1	345.1	493.2	597.2	601.5	564.2	508.4
67.5°	553.2	534.6	423.8	298.6	275.8	301.1	432.3	531.2	533.8	497.4	446.6
70°	483.9	467.8	366.3	257.2	240.2	258.0	372.2	458.5	463.6	424.7	384.0
72.5°	412.8	400.1	310.5	214.0	198.8	214.0	313.8	391.7	395.0	362.9	323.1
75°	340.9	331.6	253.8	171.7	159.9	170.9	255.5	324.8	324.8	294.4	263.1
77.5°	271.5	264.8	194.6	132.0	123.5	130.3	195.4	257.2	255.5	231.8	207.3
80°	203.0	197.9	139.6	95.6	89.7	93.1	139.6	190.3	190.3	173.4	143.8
82.5°	145.5	139.6	92.2	62.6	59.2	60.9	90.5	132.8	135.3	122.7	97.3
85°	96.4	82.9	49.9	34.7	32.1	33.0	47.4	77.0	84.6	71.1	50.8
87.5°	42.3	27.9	12.7	5.1	2.5	3.4	10.2	24.5	32.1	21.1	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8
2.5°	1581.9	1568.3	1573.4	1576.8	1573.4	1588.6
5°	1580.2	1574.3	1573.4	1577.7	1570.9	1586.1
7.5°	1577.7	1574.3	1573.4	1575.1	1566.7	1581.0
10°	1571.7	1566.7	1568.3	1570.9	1559.9	1573.4
12.5°	1560.7	1555.7	1556.5	1565.0	1549.7	1561.6
15°	1542.1	1536.2	1542.1	1551.4	1537.9	1548.0
17.5°	1517.6	1508.3	1518.4	1532.8	1522.7	1532.0
20°	1486.3	1471.9	1482.9	1509.1	1499.8	1511.7
22.5°	1448.2	1430.5	1441.5	1479.5	1477.0	1489.7
25°	1405.1	1383.9	1399.2	1445.7	1450.8	1462.6
27.5°	1356.9	1333.2	1353.5	1408.5	1420.3	1433.8
30°	1304.4	1279.0	1302.7	1367.0	1384.8	1399.2
32.5°	1250.3	1222.4	1249.4	1320.5	1345.9	1364.5
35°	1193.6	1164.8	1195.3	1272.3	1302.7	1321.3
37.5°	1132.7	1104.8	1137.8	1221.5	1257.9	1276.5
40°	1070.1	1038.8	1076.0	1161.5	1209.7	1231.7
42.5°	1005.8	966.9	1012.6	1104.8	1157.2	1179.2
45°	933.9	879.8	941.5	1044.7	1099.7	1124.2
47.5°	862.0	807.9	870.5	980.4	1039.6	1061.6
50°	792.6	746.1	796.0	910.2	978.7	1006.7
52.5°	729.2	691.1	733.4	841.7	916.1	944.1
55°	670.0	640.4	675.0	774.0	850.2	882.3
57.5°	614.1	595.5	619.2	709.7	789.2	819.7
60°	561.7	549.0	565.9	646.3	717.3	754.6
62.5°	510.1	503.3	516.0	579.5	650.5	689.4
65°	460.2	458.5	465.3	521.1	580.3	622.6
67.5°	410.3	409.4	413.7	459.3	511.8	553.2
70°	360.4	365.4	362.9	392.5	443.3	483.9
72.5°	309.6	317.2	313.0	331.6	380.7	412.8
75°	252.9	263.1	254.6	275.8	306.2	340.9
77.5°	194.6	205.6	195.4	214.0	247.0	271.5
80°	139.6	149.7	141.3	155.7	184.4	203.0
82.5°	88.0	95.6	88.8	103.2	132.0	145.5
85°	38.9	43.1	44.8	55.8	81.2	96.4
87.5°	1.7	0.8	1.7	11.0	28.8	42.3
90°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°









(END OF REPORT)