

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: METALUX

Report Number: P#

Luminaire Tested: **4ILED-LD5-5-W-CL-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34177)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-5-W-CL-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

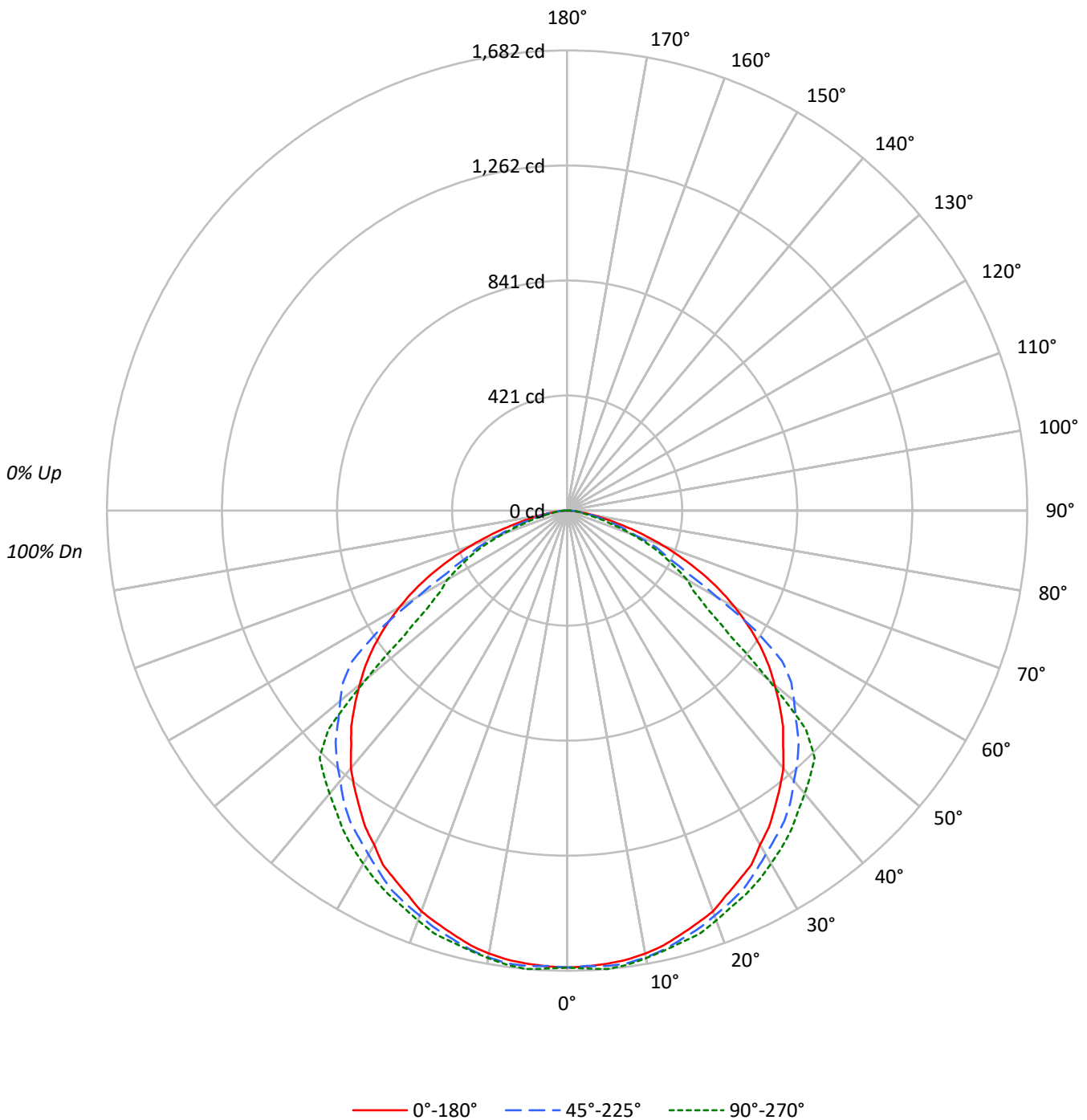
Lumens per Lamp: N/A
Luminaire Lumens: 4523.0 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V):
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: 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64	62
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4903	4903	4903
5°	4889	4883	4911
10°	4880	4861	4859
15°	4843	4805	4819
20°	4825	4758	4790
25°	4768	4734	4769
30°	4713	4666	4751
35°	4663	4653	4750
40°	4615	4579	4744
45°	4520	4539	4788
50°	4391	4442	3873
55°	4251	4325	2770
60°	3992	3189	2502
65°	3591	2336	2175
70°	2993	1829	1634
75°	2194	1350	1091
80°	1399	942	682
85°	694	561	510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	3.5
10°-20°	458.9	10.1
20°-30°	702.5	15.5
30°-40°	864.7	19.1
40°-50°	916.5	20.3
50°-60°	736.1	16.3
60°-70°	457.5	10.1
70°-80°	188.3	4.2
80°-90°	39.4	0.9
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°	1320.5	29.2
0°-40°	2185.2	48.3
0°-60°	3837.8	84.9
0°-90°	4523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4523.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1670	1670	1670	1670	1670	
5°	1663	1667	1671	1680	1682	158
15°	1604	1627	1621	1632	1632	453
25°	1489	1505	1526	1543	1547	687
35°	1324	1357	1385	1419	1427	829
45°	1116	1140	1197	1254	1279	858
55°	860	898	960	685	626	766
65°	545	584	405	384	386	537
75°	212	194	161	144	135	232
85°	26	33	35	35	34	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1670.2	1670.2	1670.2	1670.2	1670.2
2.5°	1667.5	1669.5	1666.1	1673.6	1675.6
5°	1662.7	1666.8	1670.9	1679.7	1682.4
7.5°	1655.9	1664.7	1669.5	1674.9	1674.9
10°	1644.3	1657.9	1657.9	1660.0	1661.3
12.5°	1628.0	1646.4	1643.0	1644.3	1646.4
15°	1604.2	1626.6	1621.2	1632.1	1632.1
17.5°	1581.8	1600.8	1601.5	1615.1	1619.8
20°	1558.6	1574.3	1575.6	1595.4	1594.0
22.5°	1521.2	1545.0	1551.8	1562.7	1568.2
25°	1489.3	1504.9	1526.0	1543.0	1547.1
27.5°	1458.7	1471.6	1488.6	1517.8	1521.2
30°	1410.4	1437.6	1451.9	1490.6	1490.0
32.5°	1372.3	1396.8	1417.2	1454.6	1460.0
35°	1324.0	1356.7	1384.6	1419.2	1426.7
37.5°	1277.1	1307.0	1341.7	1375.7	1385.9
40°	1229.5	1256.7	1290.0	1330.8	1351.2
42.5°	1168.3	1201.6	1245.1	1292.1	1315.2
45°	1115.9	1140.4	1196.9	1254.0	1279.2
47.5°	1052.7	1084.7	1134.3	1207.1	1183.9
50°	990.1	1026.9	1082.6	1093.5	958.2
52.5°	928.3	965.0	1032.3	865.0	749.4
55°	860.2	898.3	959.5	684.8	625.6
57.5°	786.1	822.2	816.7	568.5	548.1
60°	709.3	744.6	632.4	497.8	506.6
62.5°	629.7	667.8	496.4	454.9	441.3
65°	544.7	583.5	404.6	384.2	386.3
67.5°	456.3	488.9	355.0	327.8	321.0
70°	372.7	382.2	268.6	261.1	247.5
72.5°	289.0	276.8	213.5	197.2	182.9
75°	211.5	194.5	161.2	144.2	135.3
77.5°	146.9	134.6	116.3	122.4	90.4
80°	94.5	87.7	85.7	68.0	65.3
82.5°	55.8	55.1	53.0	49.0	47.6
85°	26.5	32.6	34.7	34.7	34.0
87.5°	9.5	16.3	21.8	23.1	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)