

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-L840-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-L840-CD1-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

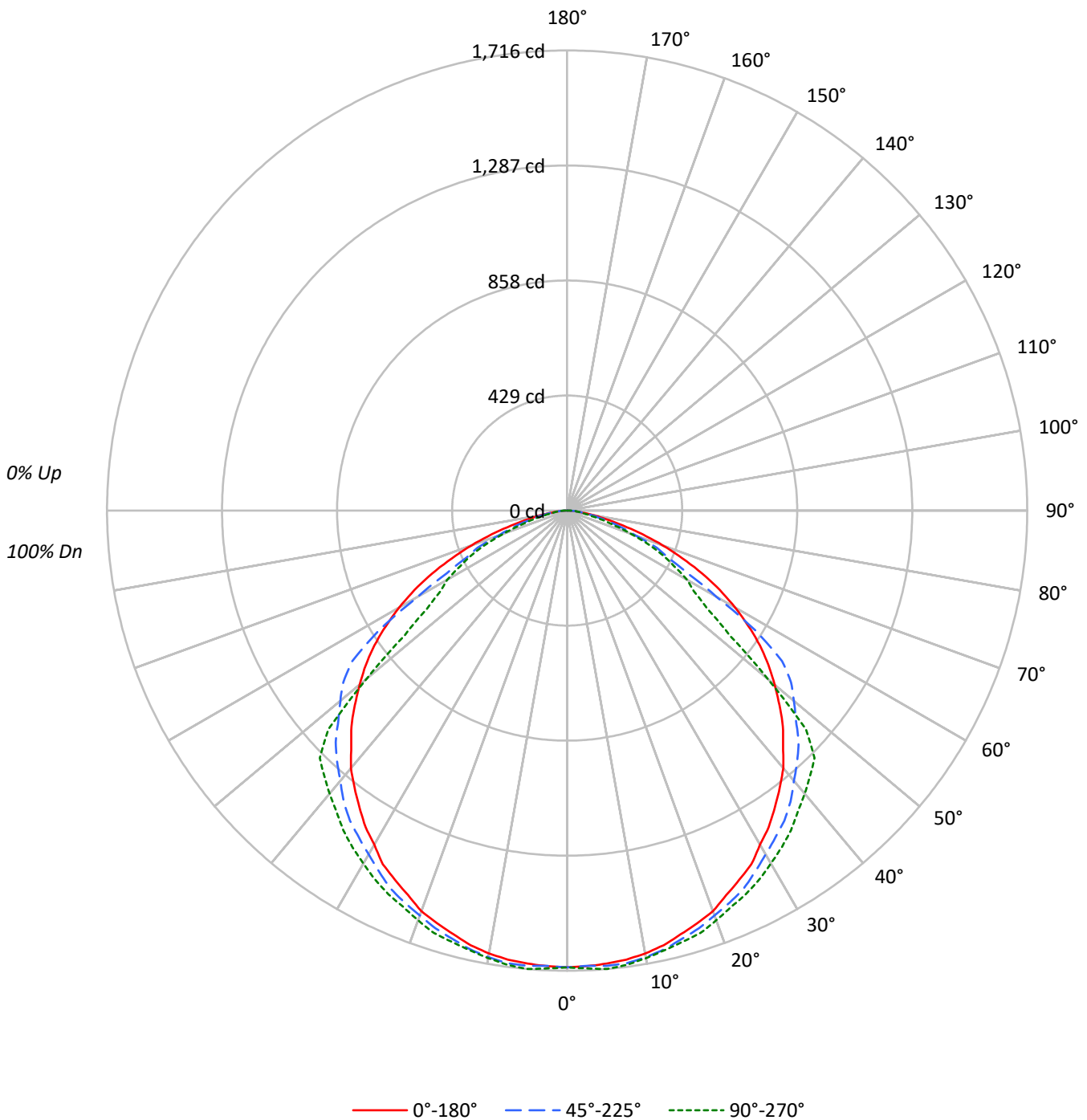
Lumens per Lamp: N/A
Luminaire Lumens: 4613.0 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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°	5001	5001	5001
5°	4986	4980	5009
10°	4977	4958	4956
15°	4939	4901	4915
20°	4921	4853	4885
25°	4863	4828	4864
30°	4807	4759	4846
35°	4756	4746	4845
40°	4707	4670	4838
45°	4610	4629	4883
50°	4478	4531	3949
55°	4336	4411	2826
60°	4071	3253	2552
65°	3662	2382	2217
70°	3053	1866	1667
75°	2238	1377	1112
80°	1427	961	696
85°	707	572	520



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	3.5
10°-20°	468.0	10.1
20°-30°	716.5	15.5
30°-40°	881.9	19.1
40°-50°	934.7	20.3
50°-60°	750.7	16.3
60°-70°	466.6	10.1
70°-80°	192.0	4.2
80°-90°	40.2	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°	1346.8	29.2
0°-40°	2228.7	48.3
0°-60°	3914.2	84.9
0°-90°	4613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4613.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1703	1703	1703	1703	1703	
5°	1696	1700	1704	1713	1716	161
15°	1636	1659	1654	1665	1665	462
25°	1519	1535	1556	1574	1578	701
35°	1350	1384	1412	1448	1455	846
45°	1138	1163	1221	1279	1305	876
55°	877	916	979	698	638	781
65°	556	595	413	392	394	547
75°	216	198	164	147	138	237
85°	27	33	35	35	35	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1703.4	1703.4	1703.4	1703.4	1703.4
2.5°	1700.6	1702.7	1699.2	1706.9	1709.0
5°	1695.8	1699.9	1704.1	1713.1	1715.9
7.5°	1688.8	1697.9	1702.7	1708.3	1708.3
10°	1677.0	1690.9	1690.9	1693.0	1694.4
12.5°	1660.4	1679.1	1675.7	1677.0	1679.1
15°	1636.1	1659.0	1653.5	1664.6	1664.6
17.5°	1613.2	1632.7	1633.4	1647.2	1652.1
20°	1589.7	1605.6	1607.0	1627.1	1625.7
22.5°	1551.5	1575.8	1582.7	1593.8	1599.4
25°	1518.9	1534.9	1556.4	1573.7	1577.9
27.5°	1487.7	1500.9	1518.2	1548.0	1551.5
30°	1438.5	1466.2	1480.8	1520.3	1519.6
32.5°	1399.6	1424.6	1445.4	1483.5	1489.1
35°	1350.4	1383.7	1412.1	1447.5	1455.1
37.5°	1302.5	1333.0	1368.4	1403.1	1413.5
40°	1254.0	1281.7	1315.7	1357.3	1378.1
42.5°	1191.6	1225.5	1269.9	1317.8	1341.4
45°	1138.1	1163.1	1220.7	1278.9	1304.6
47.5°	1073.6	1106.2	1156.9	1231.1	1207.5
50°	1009.8	1047.3	1104.2	1115.3	977.2
52.5°	946.7	984.2	1052.8	882.2	764.3
55°	877.4	916.2	978.6	698.4	638.1
57.5°	801.8	838.5	833.0	579.8	559.0
60°	723.4	759.5	645.0	507.7	516.7
62.5°	642.2	681.1	506.3	464.0	450.1
65°	555.5	595.1	412.7	391.9	393.9
67.5°	465.4	498.7	362.0	334.3	327.4
70°	380.1	389.8	274.0	266.3	252.5
72.5°	294.8	282.3	217.8	201.1	186.6
75°	215.7	198.4	164.4	147.0	138.0
77.5°	149.8	137.3	118.6	124.8	92.2
80°	96.4	89.5	87.4	69.4	66.6
82.5°	56.9	56.2	54.1	49.9	48.5
85°	27.0	33.3	35.4	35.4	34.7
87.5°	9.7	16.6	22.2	23.6	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)