

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-TWB-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 (P34175)
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-TWB-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

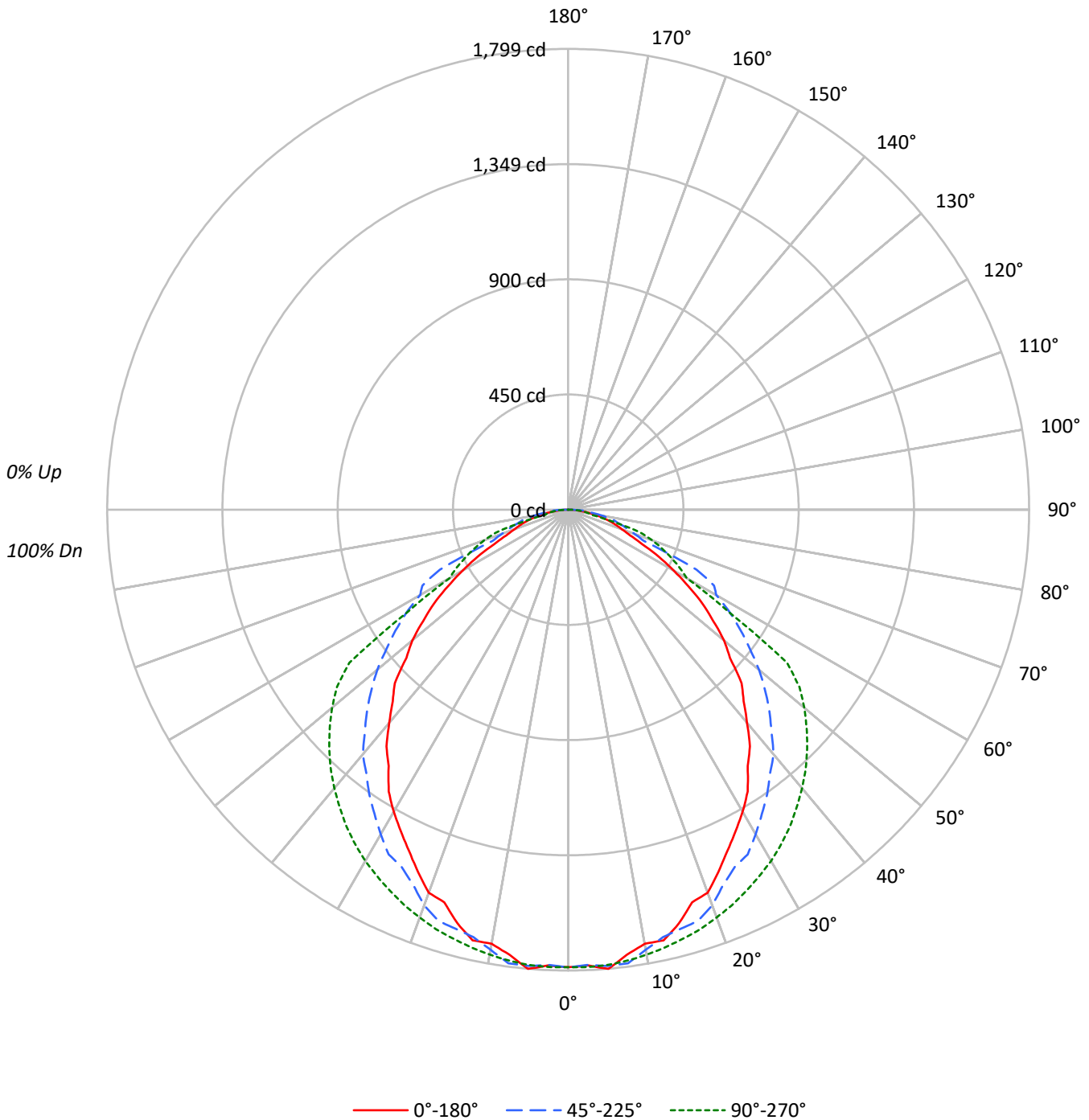
Lumens per Lamp: N/A
Luminaire Lumens: 4505.0 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V):
Input Current (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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	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	50	60	54	49	58	53	49	47
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5244	5244	5244
5°	5291	5225	5207
10°	5106	5114	5159
15°	5046	5020	5118
20°	4926	4963	5090
25°	4705	4771	5064
30°	4549	4701	5048
35°	4301	4550	5024
40°	4076	4425	4985
45°	3875	4211	4936
50°	3523	3990	4862
55°	3162	3709	4616
60°	2679	3364	2639
65°	2102	3192	2496
70°	1786	1875	2295
75°	1686	1697	1447
80°	1510	1487	852
85°	1140	1099	724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	3.8
10°-20°	480.5	10.7
20°-30°	717.2	15.9
30°-40°	853.6	18.9
40°-50°	863.1	19.2
50°-60°	727.2	16.1
60°-70°	420.2	9.3
70°-80°	207.4	4.6
80°-90°	66.5	1.5
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°	1366.9	30.3
0°-40°	2220.5	49.3
0°-60°	3810.8	84.6
0°-90°	4505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4505.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1786	1786	1786	1786	1786	
5°	1799	1803	1788	1779	1784	168
15°	1672	1697	1694	1740	1733	469
25°	1470	1497	1538	1613	1643	679
35°	1221	1271	1354	1469	1509	768
45°	957	986	1110	1244	1319	726
55°	640	690	823	981	1042	568
65°	319	389	553	416	443	328
75°	162	200	203	223	180	171
85°	44	54	68	81	48	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1786.4	1786.4	1786.4	1786.4	1786.4
2.5°	1781.0	1783.0	1778.9	1789.1	1787.1
5°	1799.3	1803.4	1787.8	1778.9	1783.7
7.5°	1752.4	1761.2	1785.7	1774.2	1775.5
10°	1720.4	1721.8	1744.2	1780.3	1764.0
12.5°	1721.8	1719.1	1708.9	1770.8	1749.7
15°	1671.5	1697.3	1693.9	1739.5	1733.4
17.5°	1606.9	1632.0	1683.0	1708.2	1717.0
20°	1591.2	1582.4	1643.6	1668.1	1693.9
22.5°	1530.7	1566.1	1583.1	1637.5	1670.8
25°	1469.5	1496.7	1538.2	1613.0	1642.9
27.5°	1414.4	1443.7	1517.1	1589.9	1613.7
30°	1361.4	1388.6	1462.7	1560.6	1583.1
32.5°	1303.6	1337.6	1407.6	1525.3	1547.7
35°	1221.3	1270.9	1353.9	1468.8	1509.0
37.5°	1164.9	1197.5	1294.7	1409.0	1464.8
40°	1086.0	1138.3	1246.5	1362.8	1419.9
42.5°	1013.2	1064.9	1173.7	1304.9	1371.6
45°	956.8	986.0	1110.5	1243.7	1318.6
47.5°	856.1	930.3	1041.8	1178.5	1262.1
50°	794.3	845.3	972.4	1115.9	1202.9
52.5°	714.0	771.1	894.2	1046.5	1137.0
55°	639.9	690.2	822.8	981.3	1042.5
57.5°	555.6	620.2	748.7	907.1	743.9
60°	476.0	540.6	667.1	612.7	534.5
62.5°	399.8	457.0	641.9	461.1	490.3
65°	318.9	389.0	552.9	415.5	443.4
67.5°	261.8	310.8	318.9	372.0	396.4
70°	222.4	246.2	275.4	329.8	347.5
72.5°	193.1	203.3	239.4	293.1	295.8
75°	162.5	199.9	202.6	223.0	179.5
77.5°	129.9	161.2	175.4	129.9	91.8
80°	102.0	109.5	135.3	114.2	81.6
82.5°	70.7	80.9	93.8	98.6	67.3
85°	43.5	53.7	68.0	80.9	48.3
87.5°	18.4	29.2	46.9	62.6	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)