

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-TWBWG-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 (P34176)
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-TWBWG-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

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

Summary

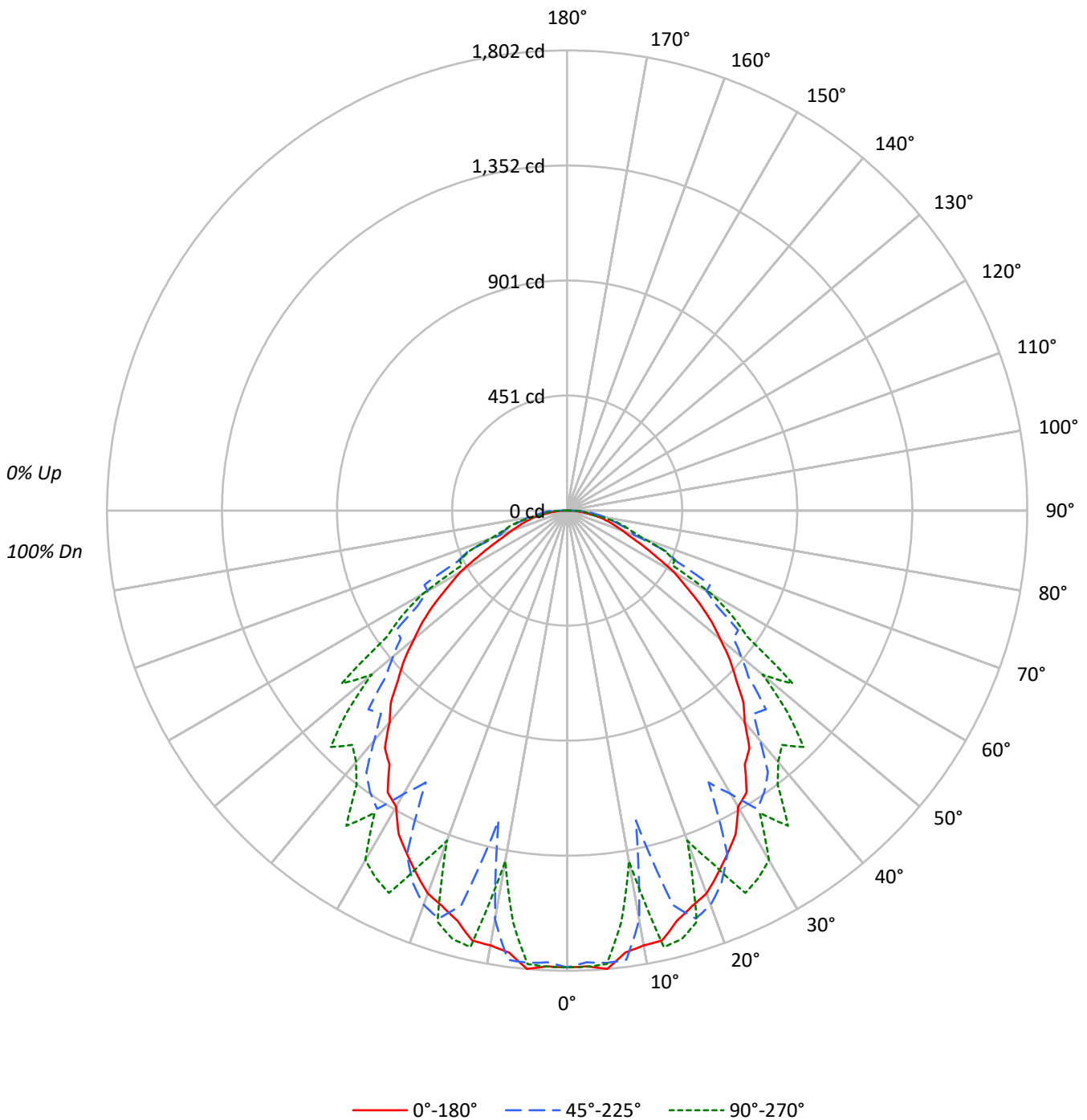
Lumens per Lamp: N/A
Luminaire Lumens: 4346.0 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77		83	79	75		80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	55		64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38		49	43	38		48	42	38	36
8	62	49	40	34	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°	5251	5251	5251
5°	5298	5197	5203
10°	5131	4773	4077
15°	5019	4740	5128
20°	4938	4962	4132
25°	4750	4604	5092
30°	4475	4117	5038
35°	4275	4522	5018
40°	4058	4168	4512
45°	3789	4174	4901
50°	3469	3651	4039
55°	3115	3683	3808
60°	2720	3179	3219
65°	2172	2738	2612
70°	1855	1898	2075
75°	1741	1813	1845
80°	1571	1693	1093
85°	1381	1502	1040



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	3.8
10°-20°	457.7	10.5
20°-30°	661.6	15.2
30°-40°	828.7	19.1
40°-50°	806.6	18.6
50°-60°	690.5	15.9
60°-70°	428.3	9.9
70°-80°	222.9	5.1
80°-90°	86.6	2.0
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°	1282.4	29.5
0°-40°	2111.1	48.6
0°-60°	3608.2	83.0
0°-90°	4346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4346.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1789	1789	1789	1789	1789	
5°	1802	1796	1778	1771	1782	168
15°	1662	1669	1599	1746	1737	471
25°	1484	1230	1484	1526	1652	682
35°	1214	1265	1346	1334	1507	767
45°	936	840	1101	1126	1309	724
55°	630	690	817	975	860	564
65°	329	370	474	402	464	334
75°	168	195	216	232	229	178
85°	53	70	93	107	69	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1788.7	1788.7	1788.7	1788.7	1788.7
2.5°	1786.6	1779.0	1770.6	1785.2	1788.0
5°	1801.8	1796.3	1778.3	1771.3	1782.4
7.5°	1745.7	1757.5	1774.1	1683.9	1625.7
10°	1729.0	1722.8	1627.8	1253.2	1394.0
12.5°	1723.5	1715.8	1242.8	1742.2	1750.5
15°	1662.4	1668.7	1599.3	1745.7	1736.7
17.5°	1625.0	1539.0	1674.9	1704.1	1688.1
20°	1595.2	1341.3	1643.0	1565.3	1375.3
22.5°	1540.4	1143.7	1579.2	1256.0	1500.1
25°	1483.5	1229.7	1484.2	1525.8	1652.0
27.5°	1428.7	1393.3	1200.5	1592.4	1622.2
30°	1339.2	1381.6	1281.0	1559.1	1579.9
32.5°	1308.0	1319.1	1385.0	1472.4	1403.1
35°	1213.7	1265.0	1345.5	1334.4	1507.1
37.5°	1172.1	1186.7	1291.4	1405.1	1353.8
40°	1081.2	1103.4	1174.2	1241.5	1285.1
42.5°	1022.3	948.1	1079.2	1203.3	1244.9
45°	935.6	839.9	1100.7	1125.6	1309.4
47.5°	864.9	834.3	963.3	1171.4	1171.4
50°	782.3	822.6	889.8	1046.6	999.4
52.5°	711.6	766.4	821.2	909.9	1113.1
55°	630.4	690.1	817.0	975.1	860.0
57.5°	550.7	601.3	693.6	747.0	767.1
60°	483.4	532.6	630.4	671.4	651.9
62.5°	396.7	459.1	630.4	529.2	464.0
65°	329.4	369.7	474.4	401.6	464.0
67.5°	270.5	312.1	421.7	387.7	413.4
70°	231.0	260.8	278.8	346.8	314.2
72.5°	197.7	219.2	255.2	262.2	260.8
75°	167.8	194.9	216.4	232.3	228.9
77.5°	139.4	177.5	178.2	213.6	185.9
80°	106.1	121.4	154.0	139.4	104.7
82.5°	77.7	95.0	117.2	120.7	92.2
85°	52.7	70.0	92.9	106.8	69.4
87.5°	24.3	47.9	75.6	95.7	63.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)