

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-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 (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-L840-CD1-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

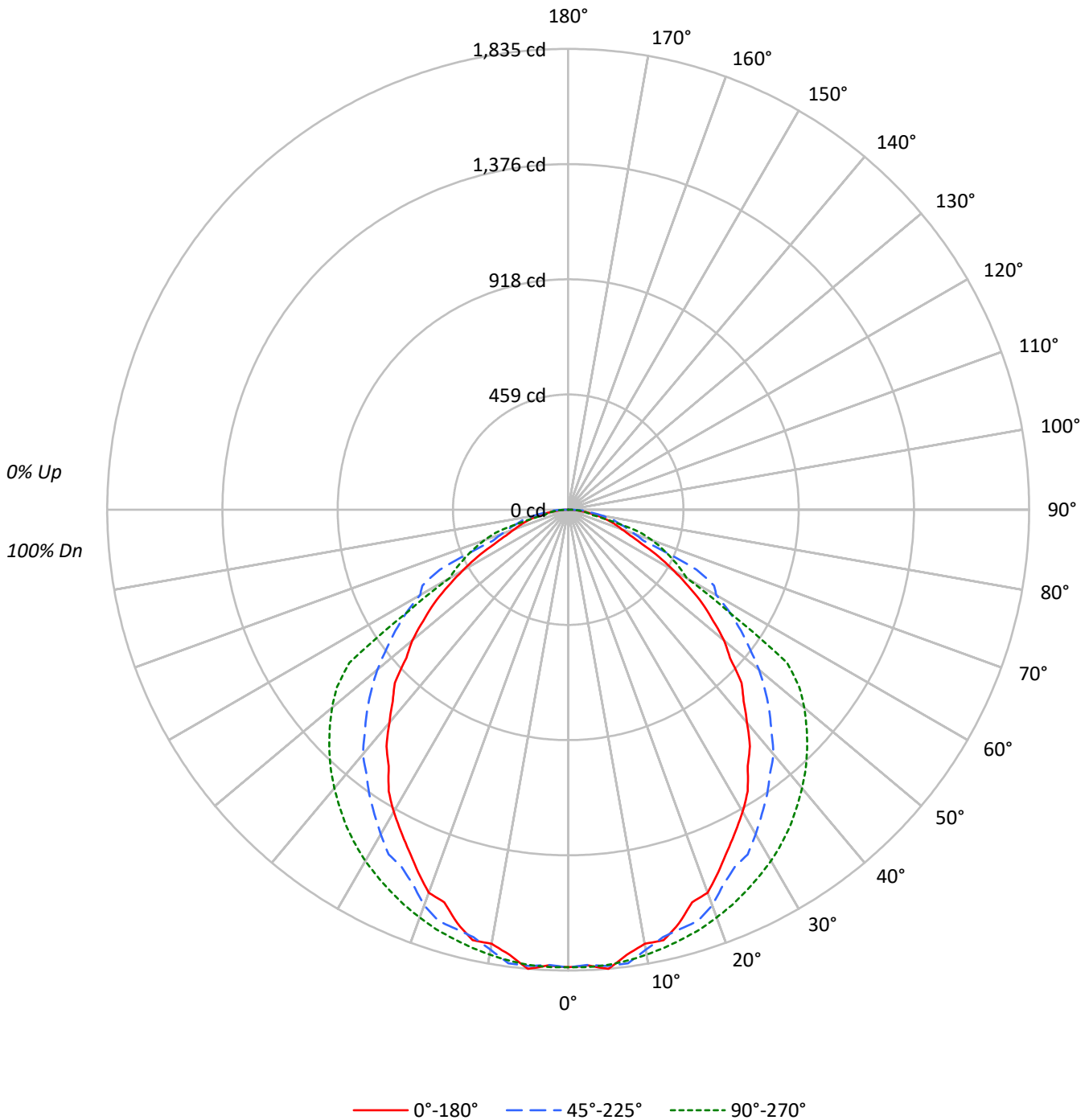
Lumens per Lamp: N/A
Luminaire Lumens: 4595.0 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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°	5349	5349	5349
5°	5397	5329	5310
10°	5208	5216	5262
15°	5147	5121	5221
20°	5025	5062	5192
25°	4799	4867	5165
30°	4640	4795	5149
35°	4387	4641	5124
40°	4158	4513	5084
45°	3953	4295	5034
50°	3593	4070	4959
55°	3225	3783	4708
60°	2732	3431	2692
65°	2145	3255	2546
70°	1822	1913	2340
75°	1720	1732	1476
80°	1540	1517	869
85°	1163	1122	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.6	3.8
10°-20°	490.1	10.7
20°-30°	731.5	15.9
30°-40°	870.7	18.9
40°-50°	880.4	19.2
50°-60°	741.8	16.1
60°-70°	428.6	9.3
70°-80°	211.6	4.6
80°-90°	67.9	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°	1394.2	30.3
0°-40°	2264.9	49.3
0°-60°	3887.0	84.6
0°-90°	4595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4595.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1822	1822	1822	1822	1822	
5°	1835	1839	1824	1814	1819	172
15°	1705	1731	1728	1774	1768	479
25°	1499	1527	1569	1645	1676	692
35°	1246	1296	1381	1498	1539	784
45°	976	1006	1133	1269	1345	741
55°	653	704	839	1001	1063	579
65°	325	397	564	424	452	335
75°	166	204	207	228	183	174
85°	44	55	69	82	49	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1822.1	1822.1	1822.1	1822.1	1822.1
2.5°	1816.5	1818.6	1814.5	1824.9	1822.8
5°	1835.3	1839.4	1823.5	1814.5	1819.3
7.5°	1787.4	1796.4	1821.4	1809.6	1811.0
10°	1754.8	1756.2	1779.1	1815.8	1799.2
12.5°	1756.2	1753.4	1743.0	1806.1	1784.6
15°	1704.9	1731.2	1727.8	1774.2	1768.0
17.5°	1639.0	1664.6	1716.7	1742.3	1751.3
20°	1623.0	1614.0	1676.4	1701.4	1727.8
22.5°	1561.3	1597.4	1614.7	1670.2	1704.2
25°	1498.9	1526.6	1568.9	1645.2	1675.7
27.5°	1442.7	1472.5	1547.4	1621.6	1645.9
30°	1388.6	1416.3	1491.9	1591.8	1614.7
32.5°	1329.6	1364.3	1435.8	1555.7	1578.6
35°	1245.7	1296.3	1381.0	1498.2	1539.1
37.5°	1188.1	1221.4	1320.6	1437.1	1494.0
40°	1107.7	1161.1	1271.4	1390.0	1448.2
42.5°	1033.5	1086.2	1197.2	1331.0	1399.0
45°	975.9	1005.7	1132.6	1268.6	1344.9
47.5°	873.2	948.8	1062.6	1202.0	1287.3
50°	810.1	862.1	991.8	1138.2	1227.0
52.5°	728.3	786.5	912.1	1067.5	1159.7
55°	652.7	704.0	839.3	1000.9	1063.3
57.5°	566.7	632.6	763.7	925.3	758.8
60°	485.5	551.4	680.4	624.9	545.2
62.5°	407.8	466.1	654.8	470.3	500.1
65°	325.3	396.7	563.9	423.8	452.2
67.5°	267.0	317.0	325.3	379.4	404.4
70°	226.8	251.1	280.9	336.4	354.4
72.5°	197.0	207.4	244.1	298.9	301.7
75°	165.8	203.9	206.7	227.5	183.1
77.5°	132.5	164.4	178.9	132.5	93.6
80°	104.0	111.7	138.0	116.5	83.2
82.5°	72.1	82.5	95.7	100.6	68.7
85°	44.4	54.8	69.4	82.5	49.2
87.5°	18.7	29.8	47.9	63.8	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)