

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-WG-UNV-L850-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 (P34174)
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-WG-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

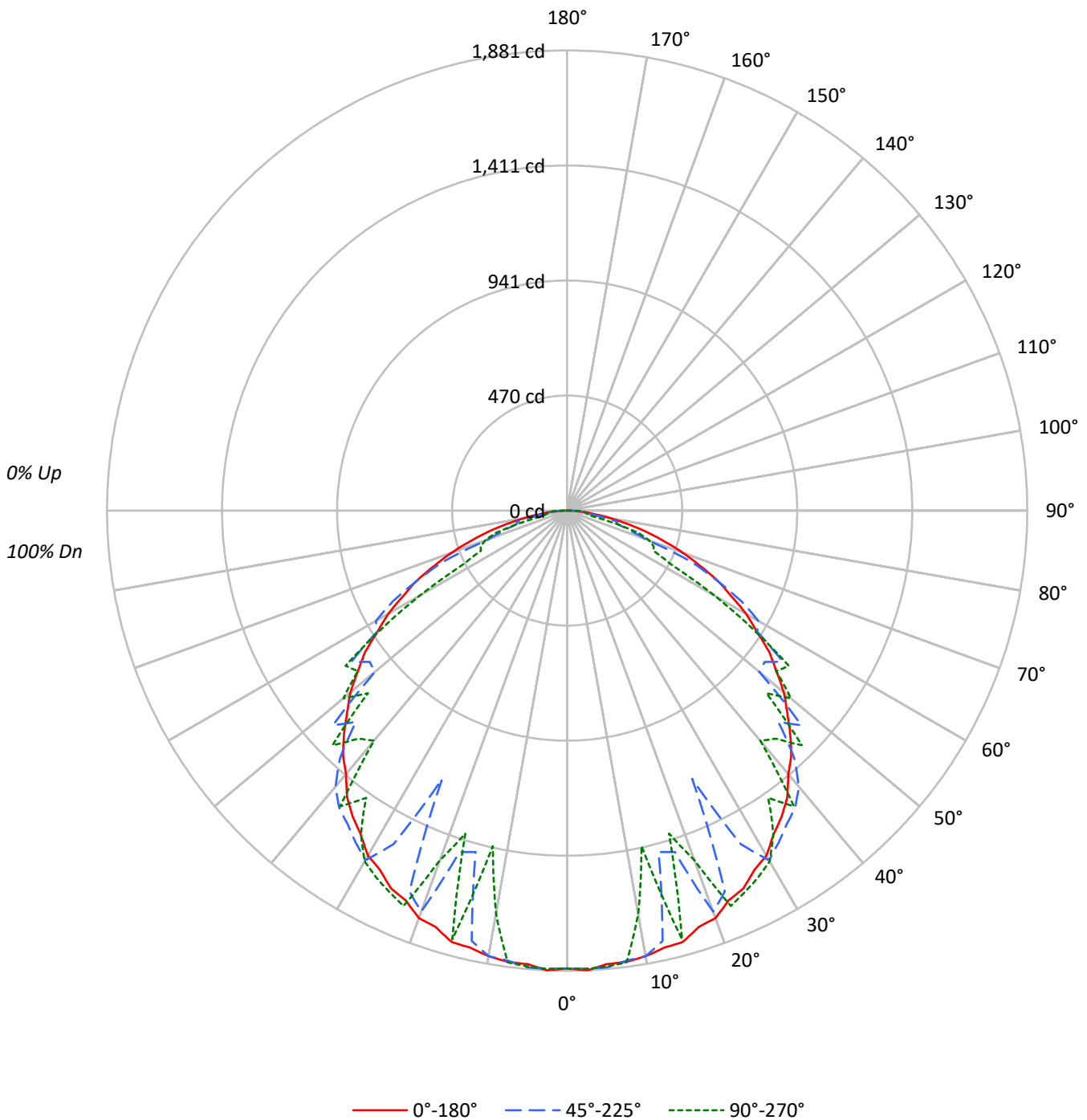
Lumens per Lamp: N/A
Luminaire Lumens: 5146.0 lumens
Efficiency: N/A
Efficacy: 153.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5494	5494	5494
5°	5472	5478	5461
10°	5490	5421	4896
15°	5512	4281	5358
20°	5487	5268	4566
25°	5456	3752	5301
30°	5441	5303	5279
35°	5381	5258	4772
40°	5278	5229	4310
45°	5222	4630	5078
50°	5128	4206	4825
55°	4980	4847	4898
60°	4751	4552	3446
65°	4482	3881	2188
70°	4014	2314	2354
75°	3457	1779	1615
80°	2677	1469	933
85°	1925	1128	1079



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.3	3.4
10°-20°	473.3	9.2
20°-30°	734.0	14.3
30°-40°	940.9	18.3
40°-50°	963.6	18.7
50°-60°	913.7	17.8
60°-70°	585.3	11.4
70°-80°	284.4	5.5
80°-90°	73.4	1.4
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°	1384.6	26.9
0°-40°	2325.5	45.2
0°-60°	4202.9	81.7
0°-90°	5146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1872	1872	1872	1872	1872	
5°	1861	1866	1874	1879	1871	178
15°	1826	1826	1444	1699	1814	513
25°	1704	1472	1210	1730	1720	783
35°	1528	1538	1565	1524	1433	954
45°	1289	1291	1221	1229	1357	994
55°	1008	1039	1075	1037	1106	895
65°	680	664	672	437	389	666
75°	333	372	212	257	200	353
85°	74	64	70	74	72	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1871.5	1871.5	1871.5	1871.5	1871.5
2.5°	1881.2	1882.7	1874.5	1871.5	1875.2
5°	1861.0	1866.2	1874.5	1879.0	1870.7
7.5°	1860.2	1862.5	1855.7	1880.5	1862.5
10°	1849.7	1862.5	1849.0	1783.7	1674.1
12.5°	1830.2	1832.4	1801.7	1298.2	1404.7
15°	1825.7	1825.7	1444.5	1698.9	1814.4
17.5°	1785.2	1794.9	1464.0	1784.4	1384.5
20°	1772.4	1766.4	1744.6	1263.7	1519.5
22.5°	1724.4	1683.1	1684.6	1755.9	1749.2
25°	1704.1	1472.3	1209.6	1730.4	1719.9
27.5°	1656.1	1234.4	1536.8	1692.9	1690.6
30°	1628.3	1283.9	1650.1	1662.1	1655.4
32.5°	1569.8	1473.8	1608.8	1634.3	1569.1
35°	1527.8	1537.5	1564.6	1524.0	1433.2
37.5°	1477.5	1410.7	1530.8	1389.7	1523.3
40°	1406.2	1099.3	1473.0	1491.0	1227.6
42.5°	1355.9	1076.1	1375.5	1157.1	1264.4
45°	1289.2	1291.4	1220.9	1229.1	1356.7
47.5°	1219.4	1247.9	1298.9	1305.7	1104.6
50°	1156.3	1184.1	1025.0	1106.8	1193.9
52.5°	1077.6	1116.6	1016.8	1142.8	1077.6
55°	1007.8	1039.3	1075.3	1037.0	1106.1
57.5°	918.5	968.7	920.7	1018.3	899.0
60°	844.2	843.4	902.7	907.2	697.9
62.5°	754.9	748.9	802.9	608.6	483.2
65°	679.9	664.1	672.3	436.7	388.7
67.5°	586.1	520.0	553.8	364.7	382.7
70°	499.8	496.8	339.9	252.9	356.4
72.5°	414.2	451.0	267.9	315.9	308.4
75°	333.2	372.2	212.4	257.4	200.4
77.5°	249.9	270.1	209.4	157.6	97.6
80°	180.8	127.6	133.6	89.3	89.3
82.5°	117.1	105.1	78.0	83.3	78.8
85°	73.5	64.5	69.8	73.5	72.0
87.5°	25.5	44.3	55.5	54.0	49.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)