

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-LD5-14-N-WG-UNV-L850-CD2-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 (P34186)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-14-N-WG-UNV-L850-CD2-U
Description: Metalux 4' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

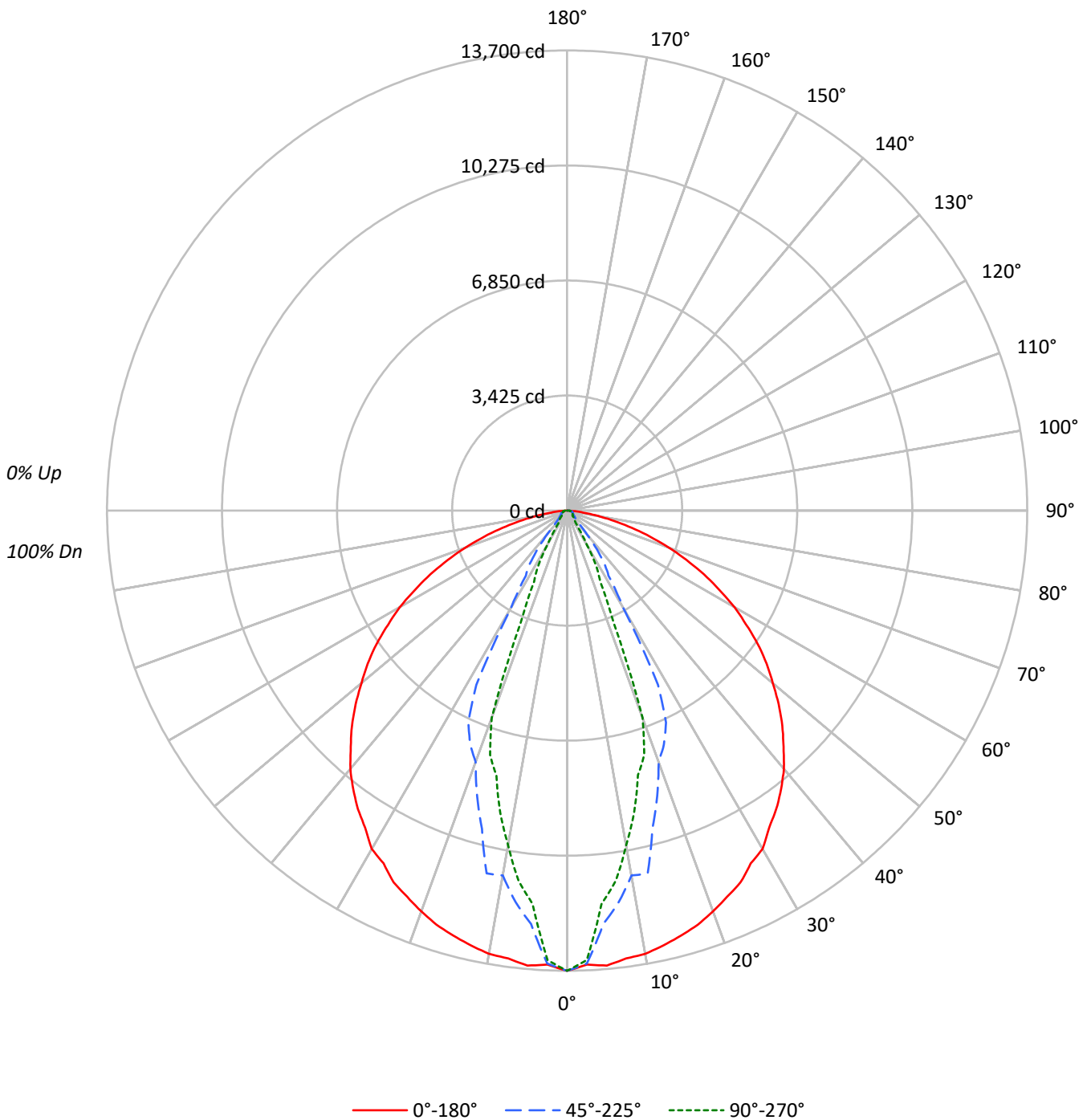
Lumens per Lamp: N/A
Luminaire Lumens: 13602.0 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 102
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	40219	40219	40219
5°	39980	36113	34328
10°	39765	32348	29622
15°	39546	29072	24073
20°	39307	24047	19721
25°	39116	21602	7173
30°	38876	10756	3739
35°	38233	6505	1424
40°	37695	3252	1241
45°	36702	1408	918
50°	35455	1191	837
55°	34235	994	877
60°	32388	1033	856
65°	29618	1118	874
70°	25850	1165	907
75°	20665	1283	998
80°	13930	1509	1105
85°	7429	1783	1384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1170.3	8.6
10°-20°	2837.1	20.9
20°-30°	3090.6	22.7
30°-40°	2377.5	17.5
40°-50°	1756.7	12.9
50°-60°	1105.3	8.1
60°-70°	723.8	5.3
70°-80°	405.2	3.0
80°-90°	135.7	1.0
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°	7097.9	52.2
0°-40°	9475.4	69.7
0°-60°	12337.4	90.7
0°-90°	13602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13700	13700	13700	13700	13700	
5°	13597	13491	12357	11627	11760	###
15°	13099	11389	9809	8515	8152	3699
25°	12217	9129	6964	3102	2327	5616
35°	10855	6728	1936	617	428	6789
45°	9062	3583	371	313	245	6978
55°	6928	918	221	232	198	6172
65°	4492	227	194	173	155	4431
75°	1992	171	153	137	124	2137
85°	284	108	110	106	92	362
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13700.4	13700.4	13700.4	13700.4	13700.4
2.5°	13531.6	13536.1	13502.3	13434.8	13392.0
5°	13596.9	13491.1	12356.7	11627.4	11760.2
7.5°	13448.3	12901.4	11760.2	11215.6	11109.8
10°	13398.8	11996.6	11033.2	10848.7	10128.4
12.5°	13257.0	11447.4	11067.0	9903.4	9212.4
15°	13099.4	11388.9	9808.8	8514.6	8152.3
17.5°	12928.4	10875.7	8913.0	7803.4	7630.1
20°	12696.6	10547.1	7963.2	7173.2	6563.2
22.5°	12446.7	10389.5	7533.3	4674.8	3623.7
25°	12217.1	9129.1	6963.9	3101.6	2327.3
27.5°	11839.0	9027.8	5849.7	2271.0	1919.9
30°	11634.2	8091.5	3346.9	1708.3	1172.6
32.5°	11190.8	7357.7	2291.3	1037.6	700.0
35°	10855.4	6727.5	1935.7	616.7	427.6
37.5°	10461.5	6311.1	1447.2	423.1	371.4
40°	10042.9	5820.5	916.1	378.1	353.4
42.5°	9534.2	5242.0	542.4	355.6	303.9
45°	9061.6	3583.2	371.4	312.9	245.3
47.5°	8539.4	2444.3	317.4	265.6	211.6
50°	7994.7	1598.0	290.3	236.3	207.1
52.5°	7483.8	1309.9	252.1	236.3	207.1
55°	6927.9	918.3	220.6	231.8	198.1
57.5°	6317.9	571.7	207.1	225.1	191.3
60°	5755.2	337.6	204.8	218.3	173.3
62.5°	5098.0	256.6	200.3	193.6	164.3
65°	4492.5	227.3	193.6	173.3	155.3
67.5°	3842.1	204.8	180.1	166.6	150.8
70°	3218.6	184.6	171.1	155.3	137.3
72.5°	2592.9	177.8	162.1	146.3	130.5
75°	1991.9	171.1	153.1	137.3	123.8
77.5°	1449.5	159.8	144.0	132.8	117.0
80°	940.8	146.3	137.3	123.8	105.8
82.5°	524.4	132.8	126.0	114.8	101.3
85°	283.6	108.0	110.3	105.8	92.3
87.5°	51.8	76.5	94.5	92.3	81.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)