

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-TWB-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 (P34185)  
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-TWB-UNV-L850-CD2-U  
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

**Summary**

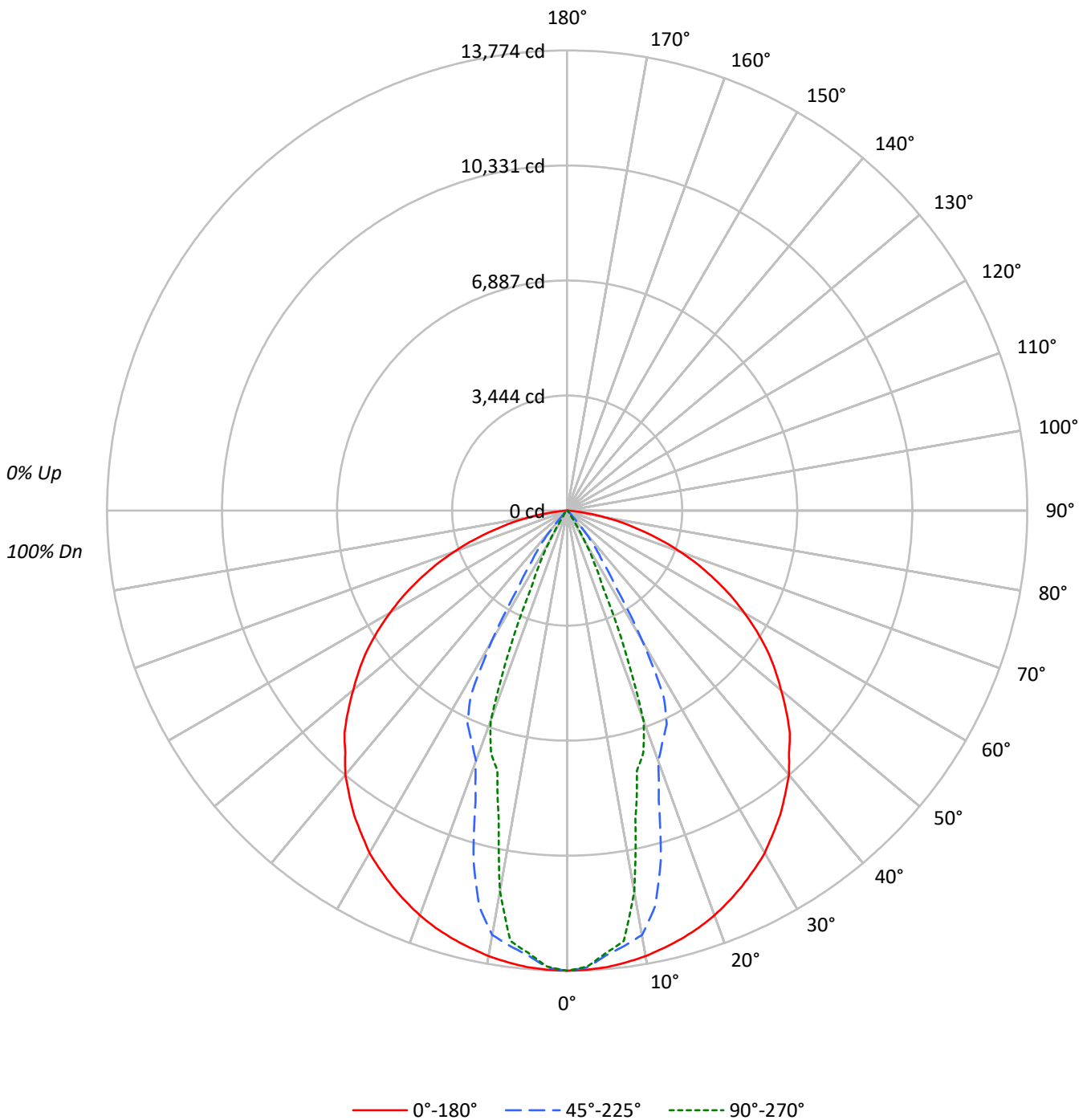
Lumens per Lamp: N/A  
Luminaire Lumens: 13854.0 lumens  
Efficiency: N/A  
Efficacy: 135.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 102  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	73	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	40436	40436	40436
5°	40330	39053	38802
10°	40185	37817	33813
15°	40039	32088	23809
20°	39912	24087	20130
25°	39681	21885	7816
30°	39538	14482	3331
35°	39162	6162	736
40°	38757	2716	525
45°	38188	649	243
50°	37075	400	131
55°	36170	254	134
60°	34446	229	139
65°	32166	238	146
70°	28915	251	157
75°	23745	291	175
80°	16848	333	159
85°	5394	351	195



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1265.3	9.1
10°-20°	3019.9	21.8
20°-30°	3302.0	23.8
30°-40°	2389.6	17.2
40°-50°	1783.4	12.9
50°-60°	1041.3	7.5
60°-70°	647.4	4.7
70°-80°	337.6	2.4
80°-90°	67.5	0.5
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°	7587.2	54.8
0°-40°	9976.8	72.0
0°-60°	12801.5	92.4
0°-90°	13854.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13854.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13774	13774	13774	13774	13774	
5°	13716	13666	13362	13321	13293	###
15°	13263	12797	10826	8466	8063	3745
25°	12394	10521	7055	3678	2536	5717
35°	11119	6782	1834	397	221	6952
45°	9428	4432	171	117	65	7240
55°	7320	858	56	65	30	6517
65°	4879	72	41	39	26	4824
75°	2289	43	35	28	22	2453
85°	206	28	22	20	13	390
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13774.2	13774.2	13774.2	13774.2	13774.2
2.5°	13752.6	13769.9	13687.5	13687.5	13663.7
5°	13715.7	13665.9	13362.4	13321.2	13293.1
7.5°	13635.5	13440.5	13143.5	13089.3	12996.1
10°	13540.2	13197.7	12898.6	12127.0	11561.3
12.5°	13405.8	12996.1	12148.6	10236.9	9452.3
15°	13262.7	12796.7	10826.5	8466.1	8063.0
17.5°	13093.7	12532.3	9107.7	7763.9	7590.5
20°	12892.1	12103.1	7976.3	7280.5	6699.6
22.5°	12655.8	11437.7	7464.8	6051.6	4484.5
25°	12393.6	10520.9	7055.1	3678.2	2535.9
27.5°	12118.3	9437.1	6244.5	2234.7	1731.8
30°	11832.2	8323.1	4506.2	1601.8	1044.7
32.5°	11465.9	7412.7	2733.2	901.7	466.0
35°	11119.1	6782.0	1833.7	396.6	221.1
37.5°	10718.1	6346.3	1339.5	210.2	156.1
40°	10325.8	5921.5	765.1	158.2	149.6
42.5°	9831.6	5392.7	323.0	149.6	106.2
45°	9428.5	4432.5	171.2	117.0	65.0
47.5°	8895.3	3034.5	114.9	91.0	41.2
50°	8359.9	1874.9	97.5	71.5	32.5
52.5°	7850.6	1242.0	71.5	67.2	30.3
55°	7319.5	858.3	56.4	65.0	30.3
57.5°	6730.0	422.7	47.7	62.9	28.2
60°	6120.9	164.7	45.5	60.7	28.2
62.5°	5518.4	91.0	43.3	49.9	26.0
65°	4879.0	71.5	41.2	39.0	26.0
67.5°	4246.1	58.5	39.0	36.8	26.0
70°	3600.2	52.0	36.8	32.5	23.8
72.5°	2941.3	47.7	34.7	32.5	21.7
75°	2288.8	43.3	34.7	28.2	21.7
77.5°	1712.3	41.2	32.5	28.2	17.3
80°	1137.9	36.8	30.3	23.8	15.2
82.5°	628.6	34.7	26.0	21.7	15.2
85°	205.9	28.2	21.7	19.5	13.0
87.5°	32.5	19.5	17.3	17.3	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)