

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-W-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 (P34173)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-14-W-UNV-L850-CD2-U
Description: Metalux 4' ILED WITH OPEN WIDE DISTRIBUTION

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

Summary

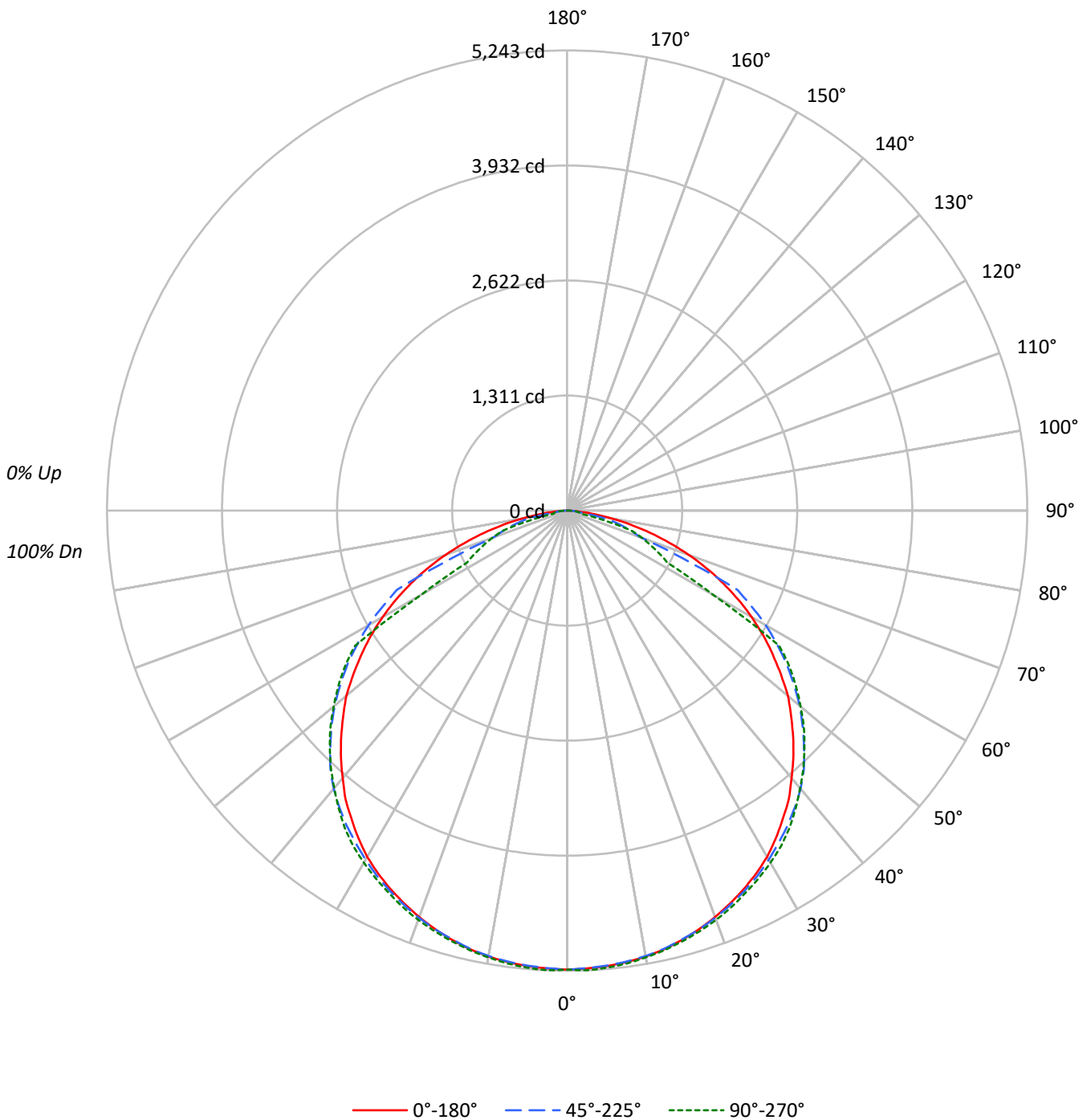
Lumens per Lamp: N/A
Luminaire Lumens: 15093.0 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 102
Input Voltage (V):
Input Current (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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15354	15354	15354
5°	15317	15212	15261
10°	15312	15108	15120
15°	15286	14989	15001
20°	15257	14913	14914
25°	15238	14828	14818
30°	15222	14760	14772
35°	15098	14720	14702
40°	14932	14691	14501
45°	14747	14470	14315
50°	14567	14188	14033
55°	14132	13774	13688
60°	13668	13193	9504
65°	12936	12372	6519
70°	11827	6028	5970
75°	10113	5235	3727
80°	7493	3091	1523
85°	3709	1549	1405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.1	3.3
10°-20°	1432.5	9.5
20°-30°	2208.7	14.6
30°-40°	2734.9	18.1
40°-50°	2911.4	19.3
50°-60°	2686.5	17.8
60°-70°	1720.1	11.4
70°-80°	774.8	5.1
80°-90°	127.9	0.8
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°	4137.3	27.4
0°-40°	6872.3	45.5
0°-60°	12470.2	82.6
0°-90°	15093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5230	5230	5230	5230	5230	
5°	5209	5218	5205	5220	5228	496
15°	5064	5072	5057	5082	5080	1430
25°	4759	4772	4780	4812	4807	2195
35°	4287	4330	4380	4426	4416	2683
45°	3641	3716	3816	3841	3824	2809
55°	2860	2964	3056	3106	3091	2558
65°	1962	2056	2143	1183	1158	1938
75°	975	1060	625	642	462	1036
85°	142	106	96	102	94	206
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5230.1	5230.1	5230.1	5230.1	5230.1
2.5°	5221.8	5232.2	5217.6	5232.2	5242.6
5°	5209.3	5217.6	5205.1	5219.7	5228.1
7.5°	5188.5	5196.8	5182.2	5196.8	5205.1
10°	5159.3	5163.5	5153.1	5167.7	5169.7
12.5°	5117.7	5121.8	5113.5	5128.1	5130.2
15°	5063.5	5071.8	5057.3	5082.3	5080.2
17.5°	5001.0	5009.4	5003.1	5021.9	5023.9
20°	4928.1	4936.5	4938.5	4961.5	4963.5
22.5°	4846.9	4859.4	4861.5	4892.7	4890.6
25°	4759.4	4771.9	4780.2	4811.5	4807.3
27.5°	4663.6	4680.3	4692.8	4724.0	4724.0
30°	4555.3	4578.2	4592.8	4634.4	4632.4
32.5°	4426.1	4469.9	4486.6	4538.6	4534.5
35°	4286.6	4330.3	4380.3	4426.1	4415.7
37.5°	4149.1	4192.9	4261.6	4288.7	4276.2
40°	3978.3	4051.2	4138.7	4149.1	4130.4
42.5°	3815.9	3874.2	3992.9	3999.2	3982.5
45°	3640.9	3715.9	3815.9	3840.9	3824.2
47.5°	3459.7	3524.3	3640.9	3672.1	3659.6
50°	3284.7	3343.0	3457.6	3488.8	3472.2
52.5°	3070.2	3157.7	3255.6	3305.6	3286.8
55°	2859.8	2964.0	3055.6	3105.6	3091.0
57.5°	2649.4	2764.0	2832.7	2901.5	2866.1
60°	2428.7	2541.1	2616.1	2584.9	1924.6
62.5°	2199.5	2307.8	2370.3	1589.2	1289.3
65°	1962.1	2055.8	2143.3	1183.1	1158.1
67.5°	1720.5	1814.2	1426.8	1051.9	1028.9
70°	1472.6	1560.1	885.2	916.5	904.0
72.5°	1222.7	1306.0	760.3	795.7	779.0
75°	974.8	1060.2	624.9	641.5	462.4
77.5°	743.6	731.1	504.1	354.1	158.3
80°	506.1	337.4	281.2	147.9	145.8
82.5°	314.5	227.0	118.7	131.2	129.1
85°	141.6	106.2	95.8	102.1	93.7
87.5°	50.0	52.1	58.3	54.2	50.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)