

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-N-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 (P34185)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-5-N-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

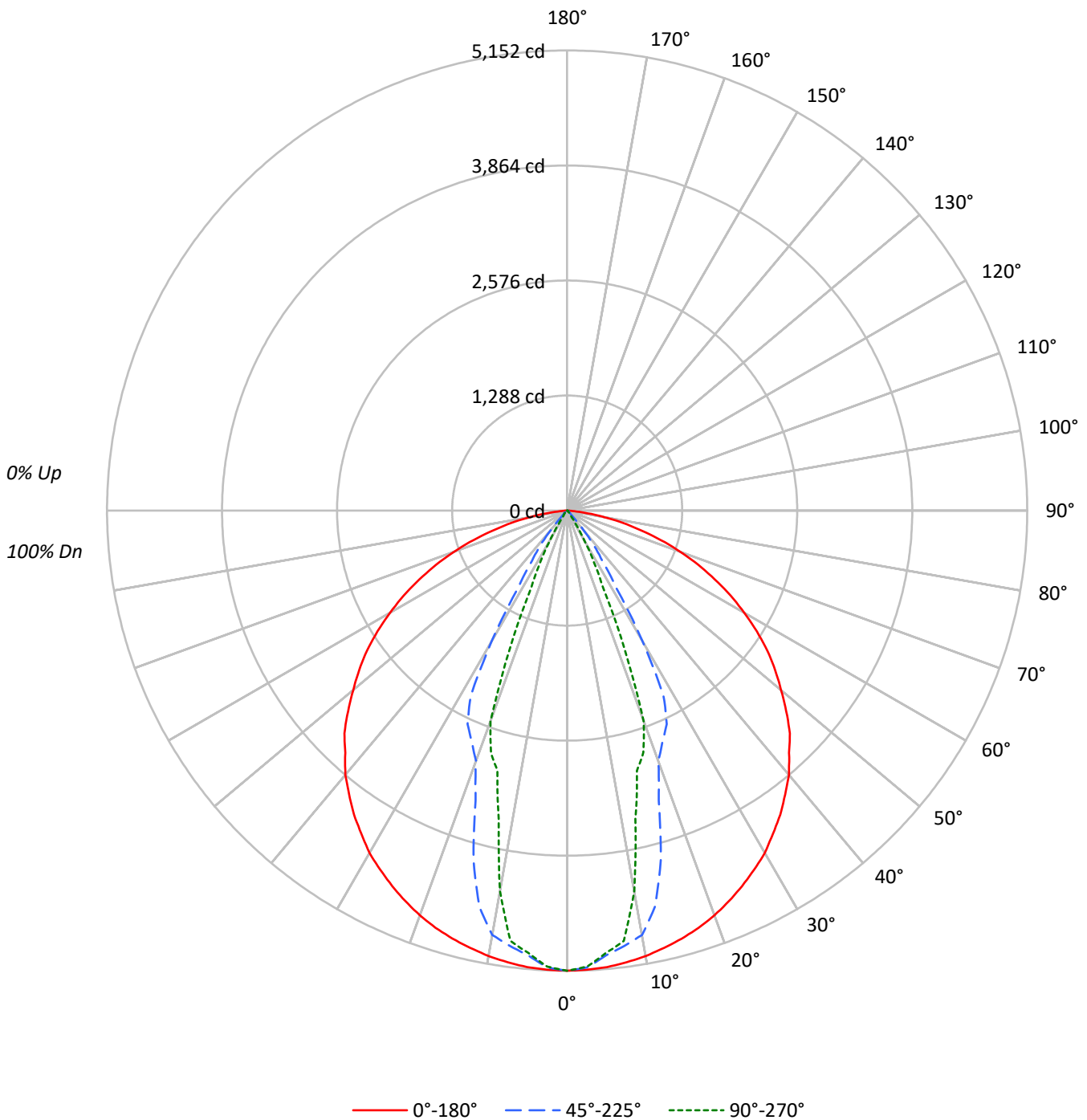
Lumens per Lamp: N/A
Luminaire Lumens: 5182.0 lumens
Efficiency: N/A
Efficacy: 154.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 33.5
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



TEST NUMBER: P#
CATALOG NUMBER: 4ILED-LD5-5-N-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-5-N-UNV-L850-CD1-U

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°	15125	15125	15125
5°	15085	14607	14514
10°	15031	14145	12647
15°	14976	12002	8906
20°	14929	9010	7530
25°	14842	8186	2924
30°	14789	5417	1246
35°	14648	2305	275
40°	14497	1016	196
45°	14284	243	91
50°	13868	150	49
55°	13529	95	50
60°	12884	86	52
65°	12031	89	55
70°	10815	94	59
75°	8882	109	65
80°	6302	125	60
85°	2017	131	73



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-5-N-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.3	9.1
10°-20°	1129.6	21.8
20°-30°	1235.1	23.8
30°-40°	893.8	17.2
40°-50°	667.1	12.9
50°-60°	389.5	7.5
60°-70°	242.1	4.7
70°-80°	126.3	2.4
80°-90°	25.2	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°	2837.9	54.8
0°-40°	3731.8	72.0
0°-60°	4788.3	92.4
0°-90°	5182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5152	5152	5152	5152	5152	
5°	5130	5112	4998	4983	4972	488
15°	4961	4786	4050	3167	3016	1401
25°	4636	3935	2639	1376	949	2138
35°	4159	2537	686	148	83	2600
45°	3527	1658	64	44	24	2708
55°	2738	321	21	24	11	2438
65°	1825	27	15	15	10	1804
75°	856	16	13	10	8	918
85°	77	10	8	7	5	146
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-5-N-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5152.2	5152.2	5152.2	5152.2	5152.2
2.5°	5144.1	5150.5	5119.7	5119.7	5110.8
5°	5130.3	5111.6	4998.1	4982.7	4972.2
7.5°	5100.3	5027.3	4916.2	4896.0	4861.1
10°	5064.6	4936.5	4824.6	4536.0	4324.4
12.5°	5014.3	4861.1	4544.1	3829.1	3535.6
15°	4960.8	4786.5	4049.6	3166.7	3015.9
17.5°	4897.6	4687.6	3406.7	2904.0	2839.2
20°	4822.2	4527.1	2983.5	2723.2	2506.0
22.5°	4733.8	4278.2	2792.1	2263.5	1677.4
25°	4635.7	3935.3	2638.9	1375.8	948.6
27.5°	4532.8	3529.9	2335.7	835.9	647.8
30°	4425.8	3113.2	1685.5	599.1	390.8
32.5°	4288.7	2772.7	1022.3	337.3	174.3
35°	4159.0	2536.8	685.9	148.4	82.7
37.5°	4009.0	2373.8	501.0	78.6	58.4
40°	3862.3	2214.9	286.2	59.2	55.9
42.5°	3677.5	2017.1	120.8	55.9	39.7
45°	3526.7	1657.9	64.0	43.8	24.3
47.5°	3327.2	1135.0	43.0	34.1	15.4
50°	3127.0	701.3	36.5	26.8	12.2
52.5°	2936.5	464.5	26.8	25.1	11.4
55°	2737.8	321.0	21.1	24.3	11.4
57.5°	2517.3	158.1	17.8	23.5	10.5
60°	2289.5	61.6	17.0	22.7	10.5
62.5°	2064.1	34.1	16.2	18.6	9.7
65°	1824.9	26.8	15.4	14.6	9.7
67.5°	1588.2	21.9	14.6	13.8	9.7
70°	1346.6	19.5	13.8	12.2	8.9
72.5°	1100.2	17.8	13.0	12.2	8.1
75°	856.1	16.2	13.0	10.5	8.1
77.5°	640.5	15.4	12.2	10.5	6.5
80°	425.6	13.8	11.4	8.9	5.7
82.5°	235.1	13.0	9.7	8.1	5.7
85°	77.0	10.5	8.1	7.3	4.9
87.5°	12.2	7.3	6.5	6.5	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)