

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-LD5-7-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-LD5-7-N-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

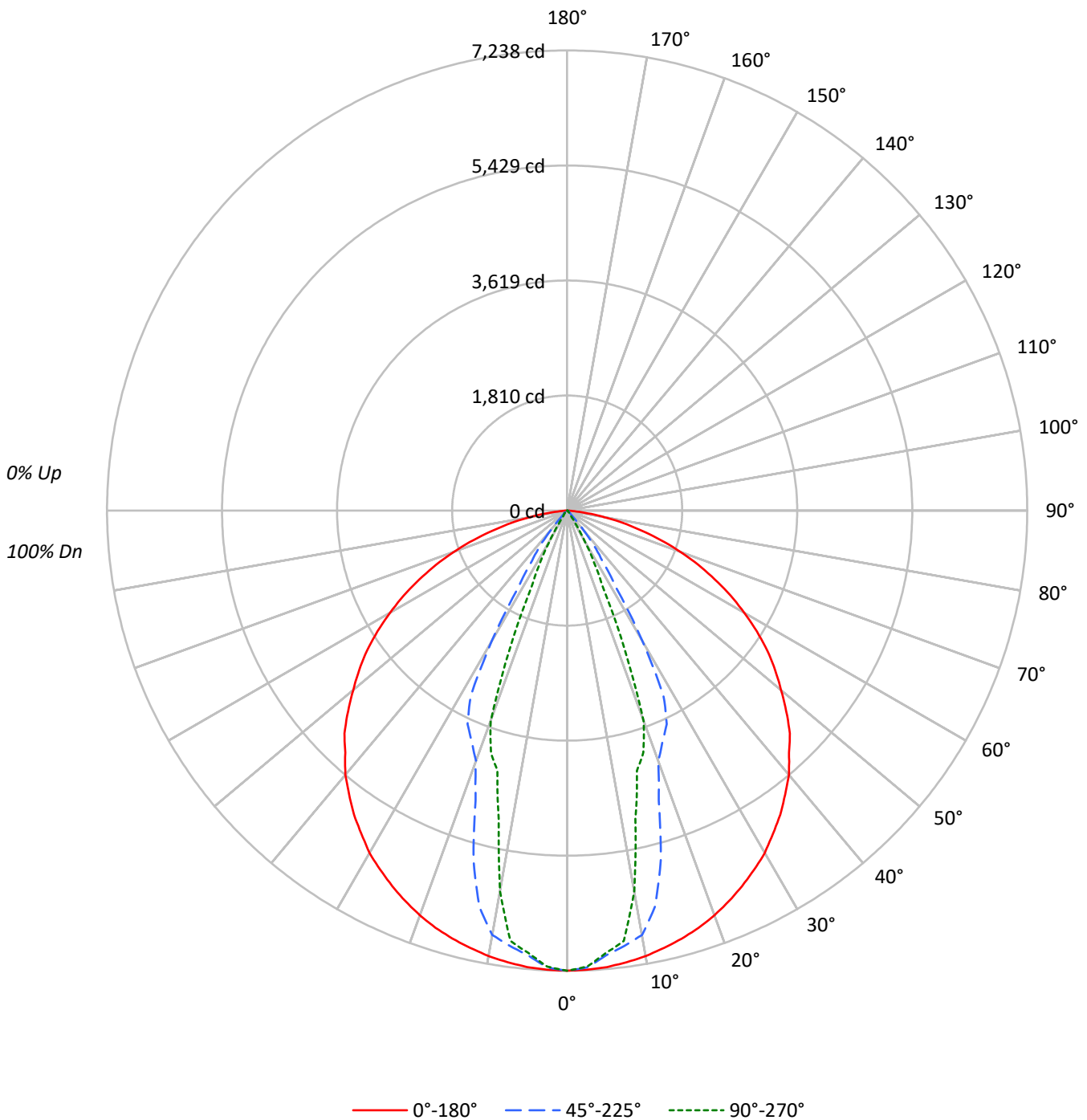
Lumens per Lamp: N/A
Luminaire Lumens: 7280.0 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 50.4
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-LD5-7-N-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-7-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°	21248	21248	21248
5°	21192	20521	20390
10°	21116	19872	17768
15°	21040	16862	12511
20°	20973	12657	10578
25°	20852	11500	4107
30°	20776	7610	1751
35°	20579	3238	387
40°	20366	1427	276
45°	20067	341	128
50°	19482	211	69
55°	19007	133	70
60°	18100	121	73
65°	16903	125	77
70°	15194	132	83
75°	12477	152	92
80°	8854	175	84
85°	2834	184	102



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-7-N-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	664.9	9.1
10°-20°	1586.9	21.8
20°-30°	1735.1	23.8
30°-40°	1255.7	17.2
40°-50°	937.1	12.9
50°-60°	547.2	7.5
60°-70°	340.2	4.7
70°-80°	177.4	2.4
80°-90°	35.5	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°	3986.9	54.8
0°-40°	5242.6	72.0
0°-60°	6727.0	92.4
0°-90°	7280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7238	7238	7238	7238	7238	
5°	7207	7181	7022	7000	6985	685
15°	6969	6724	5689	4449	4237	1968
25°	6513	5528	3707	1933	1333	3004
35°	5843	3564	964	208	116	3653
45°	4954	2329	90	62	34	3804
55°	3846	451	30	34	16	3424
65°	2564	38	22	20	14	2535
75°	1203	23	18	15	11	1289
85°	108	15	11	10	7	205
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-7-N-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7238.1	7238.1	7238.1	7238.1	7238.1
2.5°	7226.7	7235.8	7192.5	7192.5	7180.0
5°	7207.3	7181.1	7021.7	7000.0	6985.2
7.5°	7165.2	7062.7	6906.7	6878.2	6829.2
10°	7115.1	6935.1	6778.0	6372.5	6075.2
12.5°	7044.5	6829.2	6383.9	5379.3	4967.0
15°	6969.3	6724.4	5689.1	4448.8	4236.9
17.5°	6880.5	6585.5	4785.9	4079.8	3988.6
20°	6774.5	6360.0	4191.4	3825.8	3520.5
22.5°	6650.4	6010.3	3922.6	3180.0	2356.5
25°	6512.6	5528.5	3707.3	1932.8	1332.6
27.5°	6367.9	4959.0	3281.3	1174.3	910.0
30°	6217.6	4373.6	2367.9	841.7	549.0
32.5°	6025.1	3895.2	1436.2	473.8	244.9
35°	5842.9	3563.8	963.6	208.4	116.2
37.5°	5632.2	3334.9	703.9	110.5	82.0
40°	5426.0	3111.6	402.1	83.1	78.6
42.5°	5166.3	2833.7	169.7	78.6	55.8
45°	4954.5	2329.2	90.0	61.5	34.2
47.5°	4674.3	1594.5	60.4	47.8	21.6
50°	4393.0	985.2	51.3	37.6	17.1
52.5°	4125.3	652.6	37.6	35.3	15.9
55°	3846.3	451.0	29.6	34.2	15.9
57.5°	3536.5	222.1	25.1	33.0	14.8
60°	3216.4	86.6	23.9	31.9	14.8
62.5°	2899.8	47.8	22.8	26.2	13.7
65°	2563.8	37.6	21.6	20.5	13.7
67.5°	2231.2	30.8	20.5	19.4	13.7
70°	1891.8	27.3	19.4	17.1	12.5
72.5°	1545.6	25.1	18.2	17.1	11.4
75°	1202.7	22.8	18.2	14.8	11.4
77.5°	899.8	21.6	17.1	14.8	9.1
80°	598.0	19.4	15.9	12.5	8.0
82.5°	330.3	18.2	13.7	11.4	8.0
85°	108.2	14.8	11.4	10.3	6.8
87.5°	17.1	10.3	9.1	9.1	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)