

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-L840-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-L840-CD1-U
Description: Metalux 4' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

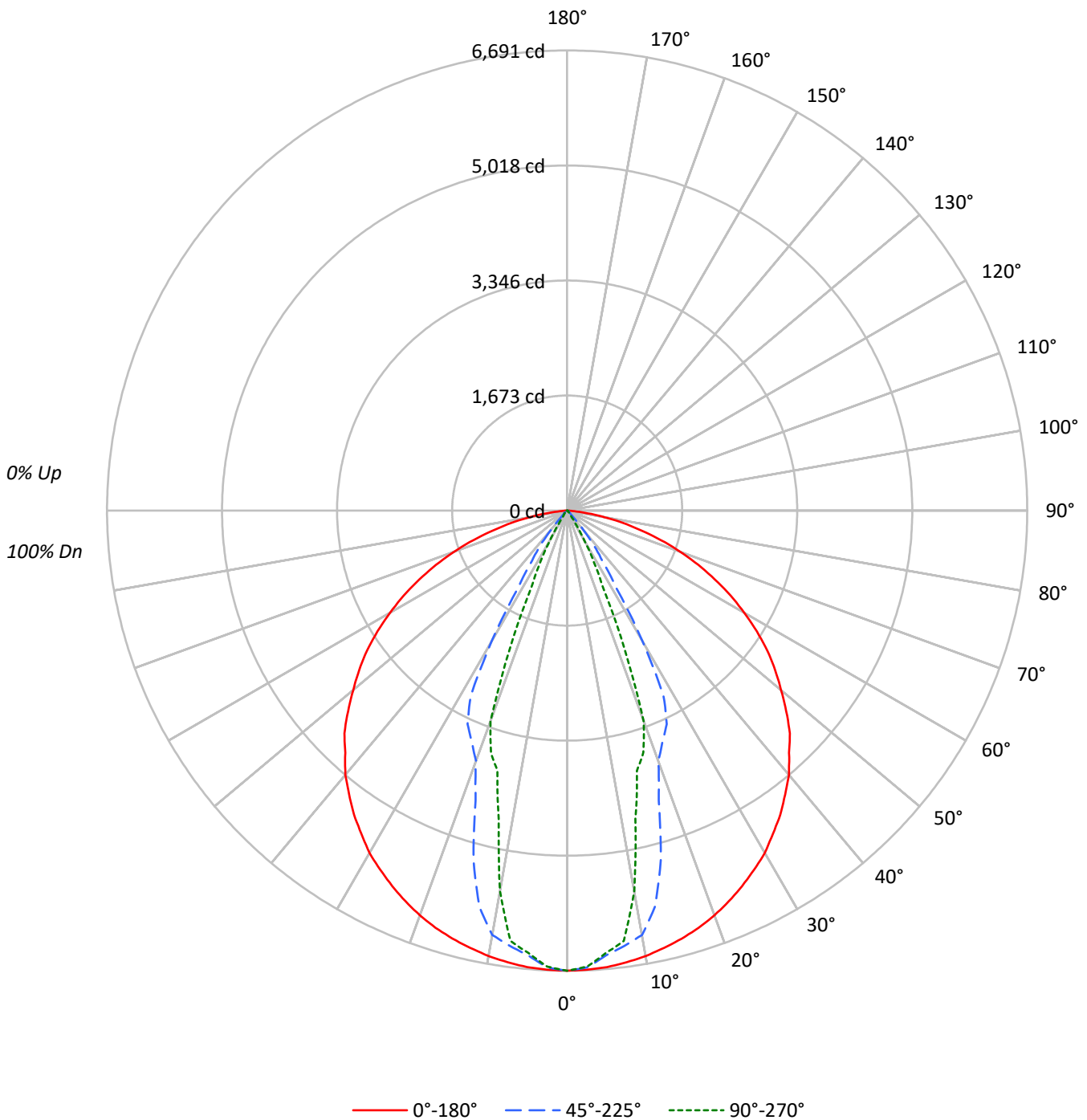
Lumens per Lamp: N/A
Luminaire Lumens: 6730.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-7-N-UNV-L840-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°	19643	19643	19643
5°	19591	18971	18849
10°	19521	18371	16425
15°	19450	15588	11566
20°	19388	11701	9779
25°	19277	10631	3797
30°	19206	7035	1618
35°	19024	2994	358
40°	18828	1319	255
45°	18551	315	118
50°	18010	194	64
55°	17571	124	65
60°	16733	111	68
65°	15626	115	71
70°	14046	122	77
75°	11535	141	85
80°	8185	162	77
85°	2620	170	94



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-7-N-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.7	9.1
10°-20°	1467.0	21.8
20°-30°	1604.0	23.8
30°-40°	1160.8	17.2
40°-50°	866.3	12.9
50°-60°	505.9	7.5
60°-70°	314.5	4.7
70°-80°	164.0	2.4
80°-90°	32.8	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°	3685.7	54.8
0°-40°	4846.5	72.0
0°-60°	6218.7	92.4
0°-90°	6730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6730.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6691	6691	6691	6691	6691	
5°	6663	6639	6491	6471	6458	633
15°	6443	6216	5259	4113	3917	1819
25°	6021	5111	3427	1787	1232	2777
35°	5401	3295	891	193	107	3377
45°	4580	2153	83	57	32	3517
55°	3556	417	27	32	15	3166
65°	2370	35	20	19	13	2343
75°	1112	21	17	14	10	1192
85°	100	14	10	10	6	189
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-7-N-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6691.3	6691.3	6691.3	6691.3	6691.3
2.5°	6680.7	6689.2	6649.1	6649.1	6637.6
5°	6662.8	6638.6	6491.2	6471.2	6457.5
7.5°	6623.9	6529.1	6384.9	6358.5	6313.3
10°	6577.5	6411.2	6265.9	5891.0	5616.2
12.5°	6512.3	6313.3	5901.6	4972.9	4591.8
15°	6442.8	6216.4	5259.3	4112.7	3916.8
17.5°	6360.6	6087.9	4424.3	3771.5	3687.3
20°	6262.7	5879.5	3874.7	3536.7	3254.6
22.5°	6148.0	5556.2	3626.2	2939.7	2178.5
25°	6020.6	5110.8	3427.2	1786.8	1231.9
27.5°	5886.8	4584.4	3033.4	1085.6	841.3
30°	5747.8	4043.2	2189.0	778.1	507.5
32.5°	5569.9	3601.0	1327.7	438.0	226.4
35°	5401.4	3294.6	890.8	192.7	107.4
37.5°	5206.7	3082.9	650.7	102.1	75.8
40°	5016.1	2876.6	371.7	76.9	72.7
42.5°	4776.0	2619.6	156.9	72.7	51.6
45°	4580.2	2153.2	83.2	56.9	31.6
47.5°	4321.2	1474.1	55.8	44.2	20.0
50°	4061.1	910.8	47.4	34.7	15.8
52.5°	3813.6	603.3	34.7	32.6	14.7
55°	3555.7	417.0	27.4	31.6	14.7
57.5°	3269.3	205.3	23.2	30.5	13.7
60°	2973.4	80.0	22.1	29.5	13.7
62.5°	2680.7	44.2	21.1	24.2	12.6
65°	2370.1	34.7	20.0	19.0	12.6
67.5°	2062.7	28.4	19.0	17.9	12.6
70°	1748.9	25.3	17.9	15.8	11.6
72.5°	1428.8	23.2	16.8	15.8	10.5
75°	1111.9	21.1	16.8	13.7	10.5
77.5°	831.8	20.0	15.8	13.7	8.4
80°	552.8	17.9	14.7	11.6	7.4
82.5°	305.3	16.8	12.6	10.5	7.4
85°	100.0	13.7	10.5	9.5	6.3
87.5°	15.8	9.5	8.4	8.4	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)