

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: **8ILED-LD5-14-N-WG-UNV-L840-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 (P34186)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-14-N-WG-UNV-L840-CD2-U
Description: Metalux 8' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

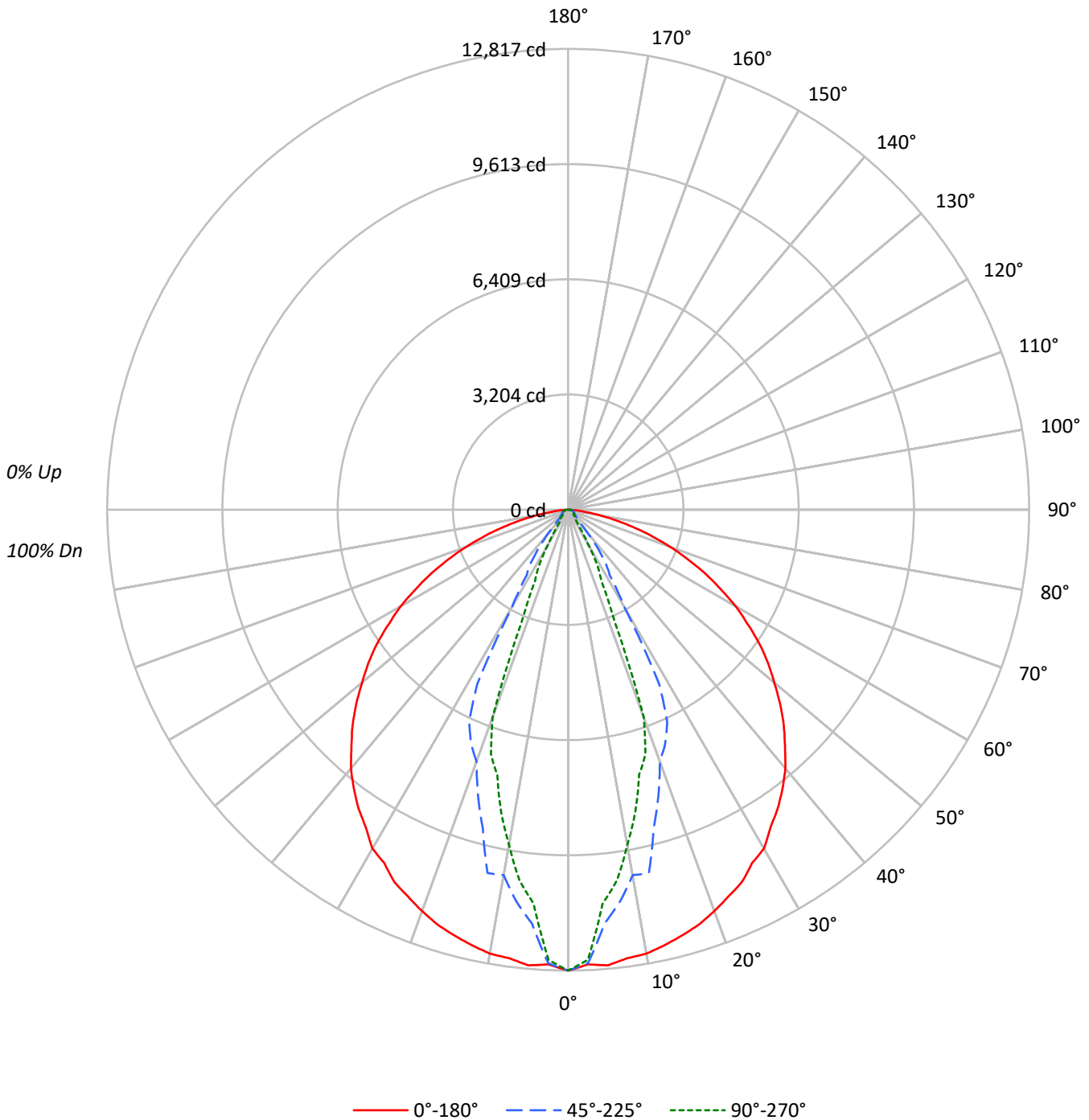
Lumens per Lamp: N/A
Luminaire Lumens: 12725.0 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 100.8
Input Voltage (V):
Input Current (A_{in}): 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: 8ILED-LD5-14-N-WG-UNV-L840-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-14-N-WG-UNV-L840-CD2-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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18813	18813	18813
5°	18722	16905	16057
10°	18642	15155	13856
15°	18560	13630	11260
20°	18469	11284	9225
25°	18403	10144	3355
30°	18315	5056	1749
35°	18039	3061	666
40°	17816	1532	580
45°	17380	664	430
50°	16828	563	391
55°	16295	470	410
60°	15471	490	400
65°	14216	531	409
70°	12493	555	424
75°	10097	615	467
80°	6948	730	517
85°	3909	877	647



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-14-N-WG-UNV-L840-CD2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1094.8	8.6
10°-20°	2654.1	20.9
20°-30°	2891.3	22.7
30°-40°	2224.2	17.5
40°-50°	1643.4	12.9
50°-60°	1034.0	8.1
60°-70°	677.1	5.3
70°-80°	379.1	3.0
80°-90°	126.9	1.0
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°	6640.3	52.2
0°-40°	8864.5	69.7
0°-60°	11541.9	90.7
0°-90°	12725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12725.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12817	12817	12817	12817	12817	
5°	12720	12621	11560	10878	11002	###
15°	12255	10655	9176	7966	7627	3460
25°	11429	8540	6515	2902	2177	5254
35°	10156	6294	1811	577	400	6351
45°	8477	3352	347	293	230	6528
55°	6481	859	206	217	185	5774
65°	4203	213	181	162	145	4145
75°	1864	160	143	128	116	1999
85°	265	101	103	99	86	338
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-14-N-WG-UNV-L840-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12817.1	12817.1	12817.1	12817.1	12817.1
2.5°	12659.1	12663.3	12631.8	12568.6	12528.6
5°	12720.2	12621.2	11560.0	10877.8	11002.0
7.5°	12581.2	12069.6	11002.0	10492.4	10393.5
10°	12534.9	11223.1	10321.9	10149.2	9475.4
12.5°	12402.2	10709.3	10353.5	9264.8	8618.4
15°	12254.8	10654.6	9176.4	7965.7	7626.6
17.5°	12094.8	10174.5	8338.3	7300.3	7138.1
20°	11877.9	9867.0	7449.8	6710.7	6140.1
22.5°	11644.2	9719.7	7047.6	4373.4	3390.1
25°	11429.4	8540.5	6514.9	2901.6	2177.2
27.5°	11075.7	8445.7	5472.6	2124.6	1796.1
30°	10884.1	7569.8	3131.1	1598.2	1097.0
32.5°	10469.3	6883.3	2143.5	970.7	654.9
35°	10155.5	6293.8	1810.9	576.9	400.1
37.5°	9787.0	5904.2	1353.9	395.9	347.4
40°	9395.4	5445.2	857.0	353.7	330.6
42.5°	8919.5	4904.0	507.5	332.7	284.3
45°	8477.3	3352.2	347.4	292.7	229.5
47.5°	7988.8	2286.7	296.9	248.5	197.9
50°	7479.2	1495.0	271.6	221.1	193.7
52.5°	7001.3	1225.5	235.8	221.1	193.7
55°	6481.2	859.1	206.4	216.9	185.3
57.5°	5910.5	534.8	193.7	210.6	179.0
60°	5384.1	315.8	191.6	204.2	162.1
62.5°	4769.3	240.0	187.4	181.1	153.7
65°	4202.9	212.7	181.1	162.1	145.3
67.5°	3594.3	191.6	168.5	155.8	141.1
70°	3011.1	172.7	160.0	145.3	128.4
72.5°	2425.7	166.3	151.6	136.9	122.1
75°	1863.5	160.0	143.2	128.4	115.8
77.5°	1356.0	149.5	134.8	124.2	109.5
80°	880.2	136.9	128.4	115.8	99.0
82.5°	490.6	124.2	117.9	107.4	94.8
85°	265.3	101.1	103.2	99.0	86.3
87.5°	48.4	71.6	88.4	86.3	75.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)