

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-LD5-16-N-TWB-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 (P34185)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-16-N-TWB-UNV-L840-CD2-U
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

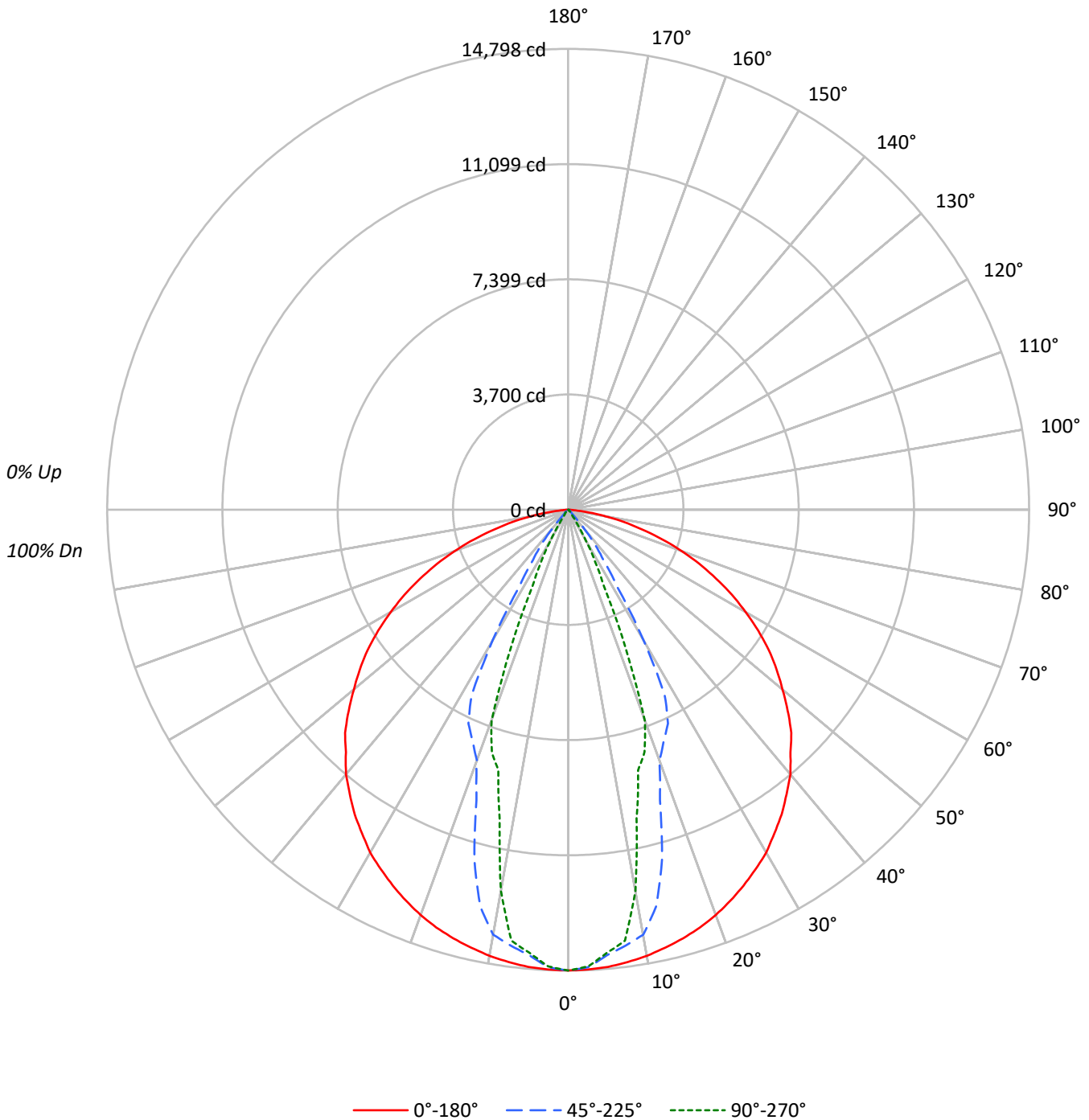
Lumens per Lamp: N/A
Luminaire Lumens: 14884.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 126.6
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: 4ILED-LD5-16-N-TWB-UNV-L840-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-16-N-TWB-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	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°	43442	43442	43442
5°	43328	41956	41687
10°	43172	40629	36326
15°	43016	34474	25579
20°	42879	25878	21627
25°	42631	23511	8398
30°	42477	15559	3579
35°	42074	6620	791
40°	41639	2918	564
45°	41028	698	262
50°	39831	430	141
55°	38860	273	144
60°	37007	247	150
65°	34557	255	157
70°	31064	270	169
75°	25511	312	188
80°	18101	358	170
85°	5795	377	210



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-16-N-TWB-UNV-L840-CD2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1359.4	9.1
10°-20°	3244.5	21.8
20°-30°	3547.5	23.8
30°-40°	2567.3	17.2
40°-50°	1915.9	12.9
50°-60°	1118.8	7.5
60°-70°	695.5	4.7
70°-80°	362.7	2.4
80°-90°	72.5	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°	8151.3	54.8
0°-40°	10718.6	72.0
0°-60°	13753.3	92.4
0°-90°	14884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14798	14798	14798	14798	14798	
5°	14735	14682	14356	14312	14281	###
15°	14249	13748	11631	9096	8662	4024
25°	13315	11303	7580	3952	2724	6142
35°	11946	7286	1970	426	238	7469
45°	10130	4762	184	126	70	7778
55°	7864	922	60	70	33	7001
65°	5242	77	44	42	28	5183
75°	2459	47	37	30	23	2636
85°	221	30	23	21	14	419
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-16-N-TWB-UNV-L840-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14798.3	14798.3	14798.3	14798.3	14798.3
2.5°	14775.0	14793.7	14705.2	14705.2	14679.6
5°	14735.4	14681.9	14355.9	14311.6	14281.4
7.5°	14649.3	14439.7	14120.7	14062.5	13962.3
10°	14546.8	14178.9	13857.6	13028.6	12420.8
12.5°	14402.5	13962.3	13051.9	10998.0	10155.1
15°	14248.8	13748.1	11631.4	9095.6	8662.4
17.5°	14067.1	13464.0	9784.8	8341.1	8154.8
20°	13850.6	13003.0	8569.3	7821.8	7197.7
22.5°	13596.8	12288.1	8019.7	6501.5	4817.9
25°	13315.0	11303.1	7579.6	3951.7	2724.5
27.5°	13019.3	10138.8	6708.7	2400.8	1860.6
30°	12711.9	8941.9	4841.2	1720.8	1122.4
32.5°	12318.3	7963.8	2936.4	968.7	500.7
35°	11945.8	7286.2	1970.0	426.1	237.5
37.5°	11515.0	6818.2	1439.1	225.9	167.7
40°	11093.5	6361.8	822.0	170.0	160.7
42.5°	10562.6	5793.6	347.0	160.7	114.1
45°	10129.5	4762.0	184.0	125.7	69.9
47.5°	9556.6	3260.1	123.4	97.8	44.2
50°	8981.4	2014.2	104.8	76.8	34.9
52.5°	8434.2	1334.3	76.8	72.2	32.6
55°	7863.7	922.1	60.5	69.9	32.6
57.5°	7230.3	454.1	51.2	67.5	30.3
60°	6576.0	177.0	48.9	65.2	30.3
62.5°	5928.6	97.8	46.6	53.6	27.9
65°	5241.7	76.8	44.2	41.9	27.9
67.5°	4561.7	62.9	41.9	39.6	27.9
70°	3867.8	55.9	39.6	34.9	25.6
72.5°	3159.9	51.2	37.3	34.9	23.3
75°	2459.0	46.6	37.3	30.3	23.3
77.5°	1839.6	44.2	34.9	30.3	18.6
80°	1222.5	39.6	32.6	25.6	16.3
82.5°	675.3	37.3	27.9	23.3	16.3
85°	221.2	30.3	23.3	21.0	14.0
87.5°	34.9	21.0	18.6	18.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)