

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-W-WG-UNV-L835-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 (P34174)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ILED-LD5-16-W-WG-UNV-L835-CD2-U  
Description: Metalux 4' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

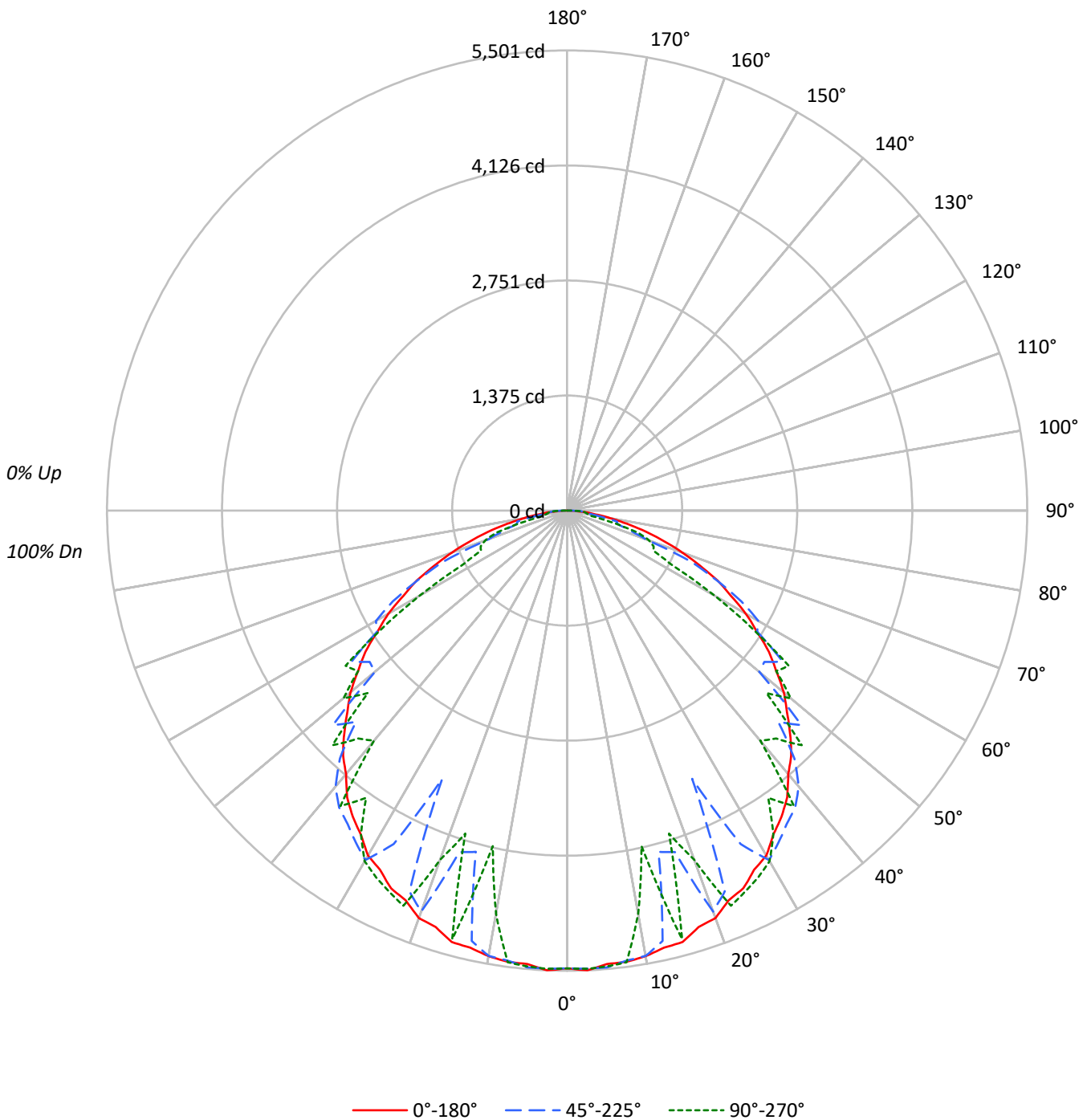
Lumens per Lamp: N/A  
Luminaire Lumens: 15047.0 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 126.6  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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-W-WG-UNV-L835-CD2-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-16-W-WG-UNV-L835-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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85					85			
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60					60			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44			
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30					30			
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	16064	16064	16064
5°	16000	16019	15967
10°	16052	15851	14316
15°	16116	12518	15666
20°	16045	15405	13350
25°	15954	10972	15501
30°	15910	15506	15435
35°	15734	15374	13953
40°	15433	15289	12602
45°	15268	13537	14849
50°	14995	12299	14109
55°	14562	14173	14322
60°	13891	13312	10077
65°	13106	11349	6398
70°	11736	6768	6883
75°	10107	5202	4722
80°	7830	4294	2727
85°	5632	3299	3157



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-16-W-WG-UNV-L835-CD2-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	518.4	3.4
10°-20°	1384.0	9.2
20°-30°	2146.1	14.3
30°-40°	2751.3	18.3
40°-50°	2817.7	18.7
50°-60°	2671.8	17.8
60°-70°	1711.4	11.4
70°-80°	831.6	5.5
80°-90°	214.8	1.4
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°	4048.5	26.9
0°-40°	6799.8	45.2
0°-60°	12289.3	81.7
0°-90°	15047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15047.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5472	5472	5472	5472	5472	
5°	5442	5457	5481	5494	5470	519
15°	5338	5338	4224	4968	5305	1499
25°	4983	4305	3537	5060	5029	2290
35°	4467	4496	4575	4456	4191	2790
45°	3770	3776	3570	3594	3967	2905
55°	2947	3039	3144	3032	3234	2618
65°	1988	1942	1966	1277	1137	1948
75°	974	1088	621	753	586	1031
85°	215	189	204	215	211	244
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-16-W-WG-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5472.2	5472.2	5472.2	5472.2	5472.2
2.5°	5500.7	5505.1	5481.0	5472.2	5483.2
5°	5441.5	5456.8	5481.0	5494.1	5470.0
7.5°	5439.3	5445.9	5426.1	5498.5	5445.9
10°	5408.6	5445.9	5406.4	5215.5	4895.1
12.5°	5351.5	5358.1	5268.1	3795.9	4107.4
15°	5338.4	5338.4	4223.7	4967.5	5305.4
17.5°	5219.9	5248.4	4280.8	5217.7	4048.2
20°	5182.6	5165.0	5101.4	3694.9	4443.1
22.5°	5042.1	4921.5	4925.9	5134.3	5114.6
25°	4982.9	4304.9	3537.0	5059.7	5029.0
27.5°	4842.5	3609.4	4493.6	4950.0	4943.4
30°	4761.3	3754.2	4824.9	4860.0	4840.3
32.5°	4590.1	4309.3	4704.2	4778.8	4588.0
35°	4467.3	4495.8	4574.8	4456.3	4190.8
37.5°	4320.3	4125.0	4476.1	4063.6	4454.1
40°	4111.8	3214.4	4307.1	4359.8	3589.6
42.5°	3964.8	3146.4	4021.9	3383.4	3697.1
45°	3769.5	3776.1	3569.9	3594.0	3967.0
47.5°	3565.5	3648.9	3798.1	3817.8	3229.8
50°	3381.2	3462.4	2997.2	3236.4	3490.9
52.5°	3150.8	3264.9	2973.1	3341.7	3150.8
55°	2946.7	3038.9	3144.2	3032.3	3234.2
57.5°	2685.6	2832.6	2692.2	2977.5	2628.6
60°	2468.4	2466.2	2639.6	2652.7	2040.6
62.5°	2207.3	2189.8	2347.7	1779.5	1413.0
65°	1987.9	1941.8	1966.0	1277.0	1136.6
67.5°	1713.6	1520.5	1619.3	1066.4	1119.0
70°	1461.3	1452.5	993.9	739.4	1042.2
72.5°	1211.2	1318.7	783.3	923.7	901.8
75°	974.2	1088.3	620.9	752.6	585.8
77.5°	730.7	789.9	612.2	460.8	285.2
80°	528.8	373.0	390.6	261.1	261.1
82.5°	342.3	307.2	228.2	243.6	230.4
85°	215.0	188.7	204.1	215.0	210.6
87.5°	74.6	129.5	162.4	158.0	144.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)