

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-CLWG-UNV-L850-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 (P34178)  
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-CLWG-UNV-L850-CD2-U  
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION  
  
Light Source: (1) 5000 CCT, 80 CRI LEDS  
Ballast/Driver: -

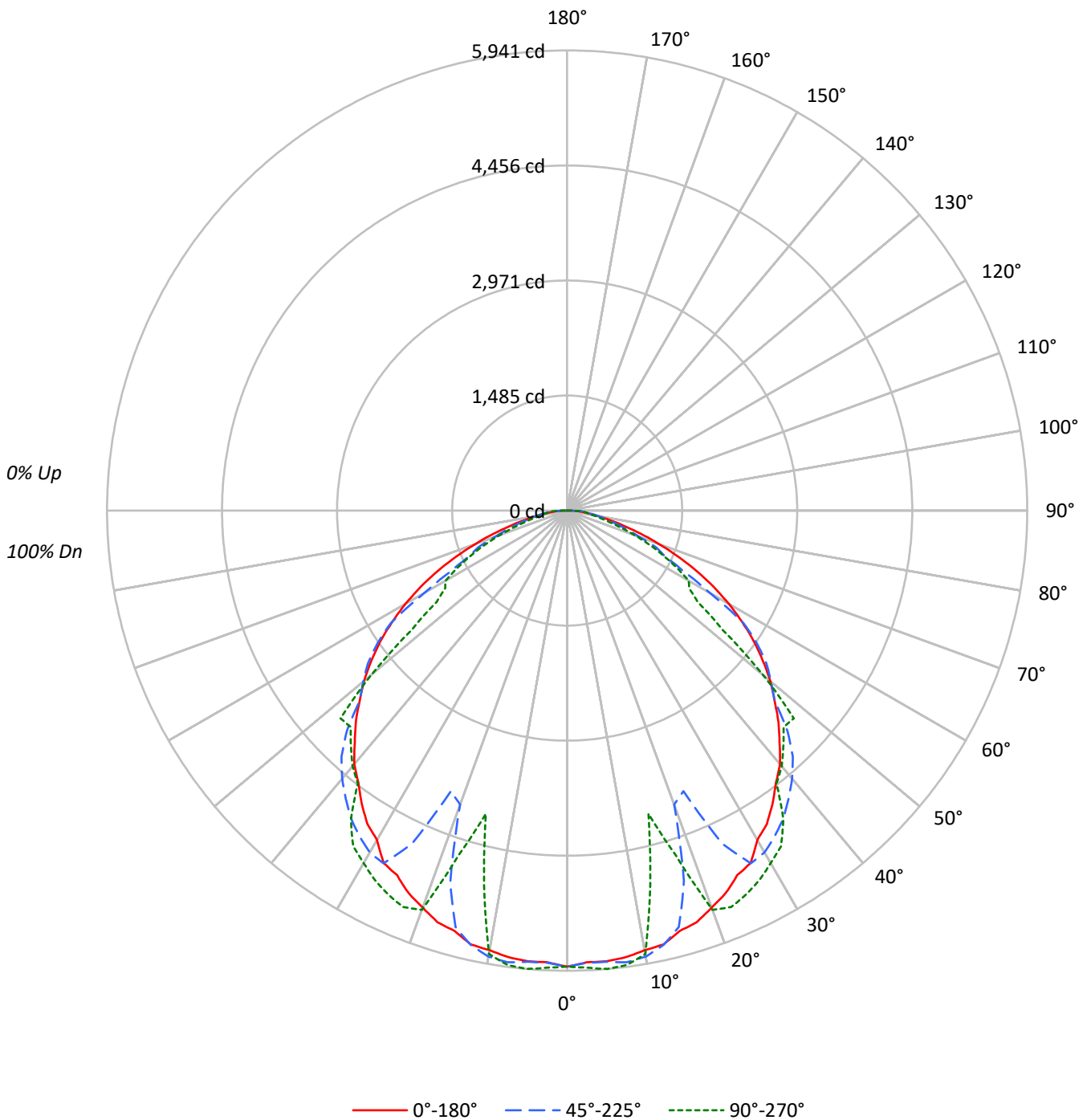
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15246.0 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39  
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-CLWG-UNV-L850-CD2-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-16-W-CLWG-UNV-L850-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	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	38	32	27	26					26			

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

	0°	45°	90°
0°	17284	17284	17284
5°	17177	17087	17341
10°	17107	17141	16999
15°	16963	16503	11967
20°	16886	12194	16483
25°	16634	14726	16856
30°	16406	16378	16760
35°	16277	16336	16209
40°	16047	16044	15129
45°	15630	15257	14789
50°	15181	14096	13365
55°	14547	13488	9101
60°	13569	10768	8954
65°	12146	7993	7713
70°	10111	6792	6123
75°	7836	5415	4507
80°	5843	4578	3438
85°	5009	3834	3448



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-16-W-CLWG-UNV-L850-CD2-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	559.0	3.7
10°-20°	1481.6	9.7
20°-30°	2362.4	15.5
30°-40°	2835.4	18.6
40°-50°	3015.5	19.8
50°-60°	2467.0	16.2
60°-70°	1564.2	10.3
70°-80°	722.6	4.7
80°-90°	238.3	1.6
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°	4403.0	28.9
0°-40°	7238.3	47.5
0°-60°	12720.9	83.4
0°-90°	15246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15246.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5888	5888	5888	5888	5888	
5°	5842	5844	5846	5892	5941	555
15°	5619	5706	5568	4387	4053	1592
25°	5195	5210	4747	5420	5469	2406
35°	4622	3464	4861	4953	4868	2888
45°	3859	3876	4024	3924	3951	2972
55°	2944	3099	2992	2319	2055	2622
65°	1842	1874	1385	1394	1370	1817
75°	755	717	646	598	559	827
85°	191	208	237	237	230	207
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-16-W-CLWG-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5887.6	5887.6	5887.6	5887.6	5887.6
2.5°	5836.8	5846.4	5844.0	5887.6	5907.0
5°	5841.6	5844.0	5846.4	5892.4	5940.9
7.5°	5815.0	5865.8	5882.7	5865.8	5916.6
10°	5764.1	5810.1	5846.4	5795.6	5812.5
12.5°	5737.5	5805.3	5744.8	5495.4	4953.1
15°	5618.9	5706.0	5568.0	4386.6	4052.6
17.5°	5570.5	5628.6	5018.5	4033.2	4665.0
20°	5454.3	5534.1	4038.0	5185.5	5485.7
22.5°	5347.7	5405.8	3919.4	5454.3	5539.0
25°	5195.2	5209.7	4747.4	5420.4	5468.8
27.5°	5129.9	4912.0	5134.7	5350.2	5376.8
30°	4909.6	4461.7	5096.0	5253.3	5255.7
32.5°	4798.2	3885.5	4987.0	5112.9	5139.5
35°	4621.5	3464.3	4861.1	4953.1	4868.4
37.5°	4427.8	3403.8	4694.1	4645.7	4439.9
40°	4275.3	3713.6	4519.8	4219.6	4309.2
42.5°	4059.8	3902.5	4311.6	4115.5	4132.5
45°	3858.9	3875.8	4023.5	3924.3	3950.9
47.5°	3631.3	3742.7	3628.9	3759.6	3970.3
50°	3423.1	3541.8	3435.2	3650.7	3306.9
52.5°	3185.9	3333.6	3244.0	2936.5	2537.1
55°	2943.8	3098.7	2992.2	2319.2	2055.3
57.5°	2679.9	2808.2	2696.9	1900.4	1866.5
60°	2411.2	2512.9	2135.2	1730.9	1813.2
62.5°	2128.0	2190.9	1684.9	1595.4	1590.5
65°	1842.3	1873.8	1384.7	1394.4	1370.2
67.5°	1544.5	1559.0	1246.8	1181.4	1145.1
70°	1258.9	1249.2	997.4	961.1	927.2
72.5°	997.4	951.4	811.0	762.6	721.4
75°	755.3	716.6	646.4	598.0	559.2
77.5°	561.6	539.9	506.0	510.8	428.5
80°	394.6	397.0	416.4	353.4	329.2
82.5°	273.6	288.1	297.8	292.9	285.7
85°	191.2	208.2	237.2	237.2	230.0
87.5°	96.8	142.8	191.2	203.4	198.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)