

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-LD5-10-N-TWBWG-UNV-L835-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 (P34186)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-10-N-TWBWG-UNV-L835-CD1-U  
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD DISTRIBUTION

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

**Summary**

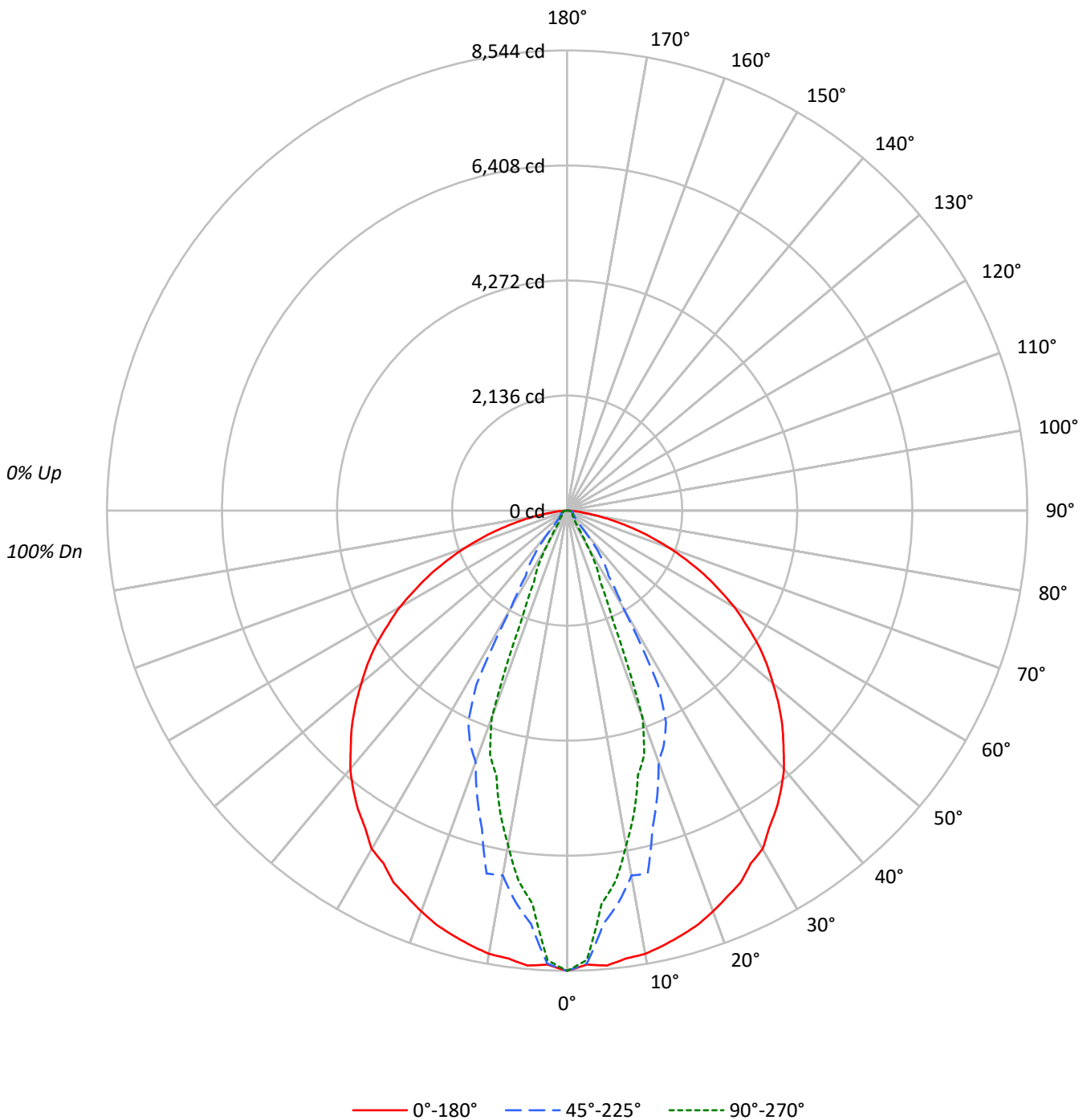
Lumens per Lamp: N/A  
Luminaire Lumens: 8483.0 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 67  
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: 8ILED-LD5-10-N-TWBWG-UNV-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-10-N-TWBWG-UNV-L835-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	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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49					49			
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

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

	0°	45°	90°
0°	12542	12542	12542
5°	12481	11270	10704
10°	12427	10103	9237
15°	12373	9087	7506
20°	12312	7522	6149
25°	12268	6763	2237
30°	12210	3370	1166
35°	12026	2040	444
40°	11876	1021	387
45°	11586	443	286
50°	11218	375	261
55°	10863	314	273
60°	10313	326	267
65°	9477	354	273
70°	8328	370	283
75°	6731	410	311
80°	4631	486	345
85°	2607	584	432



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-10-N-TWBWG-UNV-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	729.8	8.6
10°-20°	1769.4	20.9
20°-30°	1927.5	22.7
30°-40°	1482.8	17.5
40°-50°	1095.6	12.9
50°-60°	689.3	8.1
60°-70°	451.4	5.3
70°-80°	252.7	3.0
80°-90°	84.6	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°	4426.7	52.2
0°-40°	5909.4	69.7
0°-60°	7694.3	90.7
0°-90°	8483.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8483.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8544	8544	8544	8544	8544	
5°	8480	8414	7706	7252	7334	803
15°	8170	7103	6117	5310	5084	2307
25°	7619	5693	4343	1934	1451	3503
35°	6770	4196	1207	385	267	4234
45°	5651	2235	232	195	153	4352
55°	4321	573	138	145	124	3849
65°	2802	142	121	108	97	2763
75°	1242	107	96	86	77	1333
85°	177	67	69	66	58	226
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-10-N-TWBWG-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8544.4	8544.4	8544.4	8544.4	8544.4
2.5°	8439.1	8441.9	8420.8	8378.7	8352.1
5°	8479.8	8413.8	7706.4	7251.6	7334.4
7.5°	8387.2	8046.1	7334.4	6994.7	6928.7
10°	8356.3	7481.8	6881.0	6765.9	6316.7
12.5°	8267.8	7139.3	6902.0	6176.3	5745.4
15°	8169.6	7102.8	6117.4	5310.2	5084.2
17.5°	8062.9	6782.7	5558.7	4866.7	4758.6
20°	7918.3	6577.8	4966.3	4473.6	4093.2
22.5°	7762.5	6479.5	4698.2	2915.5	2260.0
25°	7619.3	5693.4	4343.1	1934.3	1451.4
27.5°	7383.5	5630.3	3648.2	1416.3	1197.4
30°	7255.8	5046.3	2087.3	1065.4	731.3
32.5°	6979.2	4588.7	1429.0	647.1	436.6
35°	6770.1	4195.7	1207.2	384.6	266.7
37.5°	6524.4	3936.0	902.6	263.9	231.6
40°	6263.3	3630.0	571.3	235.8	220.4
42.5°	5946.1	3269.2	338.3	221.8	189.5
45°	5651.3	2234.7	231.6	195.1	153.0
47.5°	5325.7	1524.4	197.9	165.6	131.9
50°	4986.0	996.6	181.1	147.4	129.1
52.5°	4667.3	817.0	157.2	147.4	129.1
55°	4320.6	572.7	137.6	144.6	123.5
57.5°	3940.2	356.5	129.1	140.4	119.3
60°	3589.3	210.6	127.7	136.2	108.1
62.5°	3179.4	160.0	124.9	120.7	102.5
65°	2801.8	141.8	120.7	108.1	96.9
67.5°	2396.1	127.7	112.3	103.9	94.0
70°	2007.3	115.1	106.7	96.9	85.6
72.5°	1617.1	110.9	101.1	91.2	81.4
75°	1242.3	106.7	95.5	85.6	77.2
77.5°	904.0	99.7	89.8	82.8	73.0
80°	586.7	91.2	85.6	77.2	66.0
82.5°	327.1	82.8	78.6	71.6	63.2
85°	176.9	67.4	68.8	66.0	57.6
87.5°	32.3	47.7	59.0	57.6	50.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)