

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-LD5-18-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: 8ILED-LD5-18-N-TWB-UNV-L840-CD2-U  
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

**Summary**

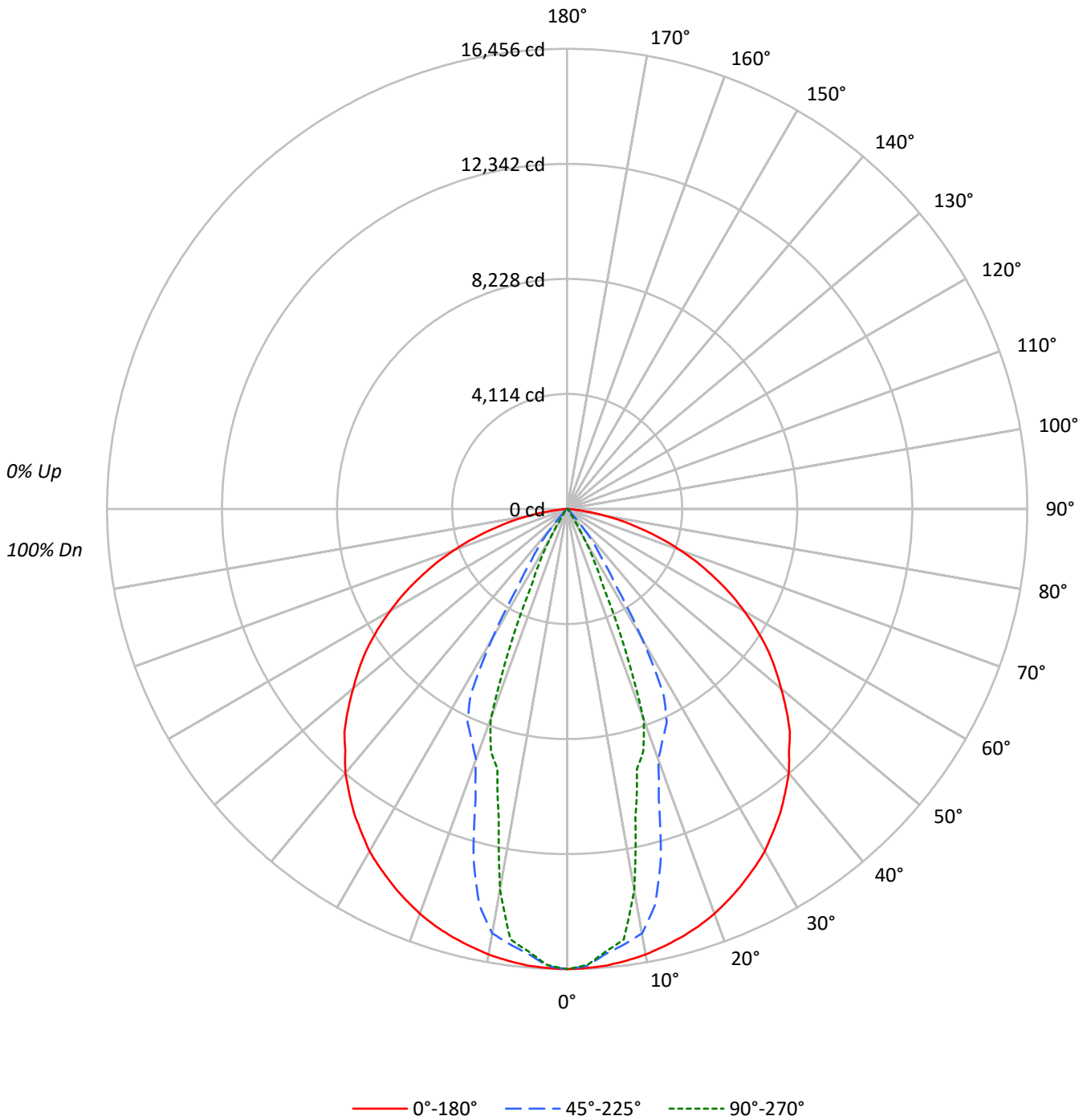
Lumens per Lamp: N/A  
Luminaire Lumens: 16551.0 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 131.3  
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



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### Luminous Intensity Polar Plot





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**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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	73	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	48					48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

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

	0°	45°	90°
0°	24154	24154	24154
5°	24117	23346	23178
10°	24057	22624	20197
15°	23997	19212	14222
20°	23949	14433	12025
25°	23841	13124	4669
30°	23786	8693	1990
35°	23596	3702	440
40°	23391	1634	314
45°	23093	391	145
50°	22471	241	78
55°	21985	153	80
60°	21012	139	83
65°	19716	144	88
70°	17845	153	94
75°	14816	178	104
80°	10730	206	95
85°	3625	220	116



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1511.6	9.1
10°-20°	3607.8	21.8
20°-30°	3944.8	23.8
30°-40°	2854.8	17.2
40°-50°	2130.5	12.9
50°-60°	1244.1	7.5
60°-70°	773.4	4.7
70°-80°	403.4	2.4
80°-90°	80.6	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°	9064.2	54.8
0°-40°	11919.0	72.0
0°-60°	15293.6	92.4
0°-90°	16551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16551.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16456	16456	16456	16456	16456	
5°	16386	16326	15964	15914	15881	###
15°	15845	15288	12934	10114	9633	4474
25°	14806	12569	8428	4394	3030	6830
35°	13284	8102	2191	474	264	8305
45°	11264	5295	205	140	78	8649
55°	8744	1025	67	78	36	7785
65°	5829	86	49	47	31	5763
75°	2734	52	41	34	26	2931
85°	246	34	26	23	16	466
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	16455.7	16455.7	16455.7	16455.7	16455.7
2.5°	16429.8	16450.5	16352.1	16352.1	16323.7
5°	16385.8	16326.2	15963.7	15914.5	15880.9
7.5°	16290.0	16057.0	15702.2	15637.5	15526.1
10°	16176.1	15766.9	15409.6	14487.8	13811.9
12.5°	16015.5	15526.1	14513.7	12229.8	11292.4
15°	15844.6	15287.9	12934.1	10114.2	9632.6
17.5°	15642.6	14972.0	10880.7	9275.3	9068.1
20°	15401.8	14459.3	9529.0	8697.8	8003.9
22.5°	15119.6	13664.3	8917.9	7229.6	5357.5
25°	14806.3	12569.0	8428.5	4394.2	3029.6
27.5°	14477.4	11274.3	7460.1	2669.7	2068.9
30°	14135.6	9943.3	5383.4	1913.6	1248.1
32.5°	13698.0	8855.8	3265.2	1077.2	556.7
35°	13283.7	8102.3	2190.6	473.9	264.1
37.5°	12804.6	7581.8	1600.3	251.2	186.4
40°	12336.0	7074.3	914.1	189.0	178.7
42.5°	11745.6	6442.5	385.8	178.7	126.9
45°	11263.9	5295.3	204.6	139.8	77.7
47.5°	10627.0	3625.2	137.2	108.8	49.2
50°	9987.4	2239.8	116.5	85.5	38.8
52.5°	9378.9	1483.7	85.5	80.3	36.3
55°	8744.4	1025.4	67.3	77.7	36.3
57.5°	8040.1	504.9	57.0	75.1	33.7
60°	7312.5	196.8	54.4	72.5	33.7
62.5°	6592.6	108.8	51.8	59.6	31.1
65°	5828.8	85.5	49.2	46.6	31.1
67.5°	5072.7	69.9	46.6	44.0	31.1
70°	4301.0	62.1	44.0	38.8	28.5
72.5°	3513.8	57.0	41.4	38.8	25.9
75°	2734.4	51.8	41.4	33.7	25.9
77.5°	2045.6	49.2	38.8	33.7	20.7
80°	1359.4	44.0	36.3	28.5	18.1
82.5°	750.9	41.4	31.1	25.9	18.1
85°	246.0	33.7	25.9	23.3	15.5
87.5°	38.8	23.3	20.7	20.7	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)