

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-LD5-28-N-TWB-UNV-L835-CD4-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-LD5-28-N-TWB-UNV-L835-CD4-U  
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

**Summary**

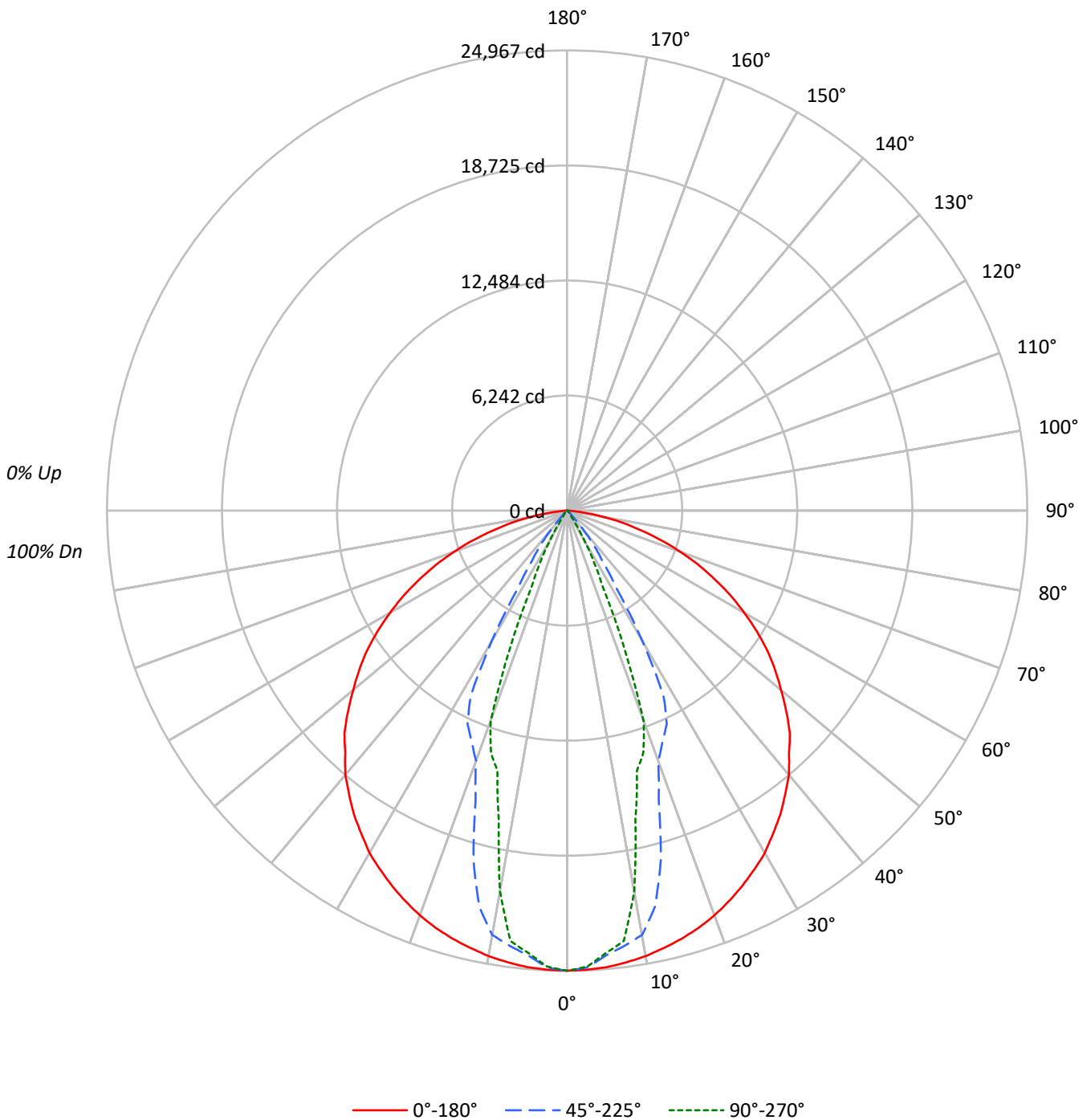
Lumens per Lamp: N/A  
Luminaire Lumens: 25112.0 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 204  
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°	36647	36647	36647
5°	36591	35421	35167
10°	36500	34327	30645
15°	36409	29149	21578
20°	36336	21898	18244
25°	36172	19913	7084
30°	36090	13189	3019
35°	35801	5618	667
40°	35491	2479	476
45°	35038	593	221
50°	34095	366	119
55°	33357	233	122
60°	31880	211	126
65°	29913	219	133
70°	27076	232	143
75°	22480	270	158
80°	16281	313	144
85°	5499	334	177



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2293.5	9.1
10°-20°	5474.0	21.8
20°-30°	5985.2	23.8
30°-40°	4331.5	17.2
40°-50°	3232.5	12.9
50°-60°	1887.5	7.5
60°-70°	1173.4	4.7
70°-80°	612.0	2.4
80°-90°	122.3	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°	13752.7	54.8
0°-40°	18084.2	72.0
0°-60°	23204.3	92.4
0°-90°	25112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25112.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	24967	24967	24967	24967	24967	
5°	24861	24771	24221	24146	24095	###
15°	24040	23196	19624	15346	14615	6789
25°	22465	19070	12788	6667	4597	10363
35°	20155	12293	3324	719	401	12601
45°	17090	8034	310	212	118	13123
55°	13268	1556	102	118	55	11812
65°	8844	130	75	71	47	8744
75°	4149	79	63	51	39	4447
85°	373	51	39	35	24	707
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	24967.4	24967.4	24967.4	24967.4	24967.4
2.5°	24928.1	24959.6	24810.3	24810.3	24767.1
5°	24861.4	24771.0	24221.0	24146.3	24095.2
7.5°	24716.0	24362.4	23824.2	23725.9	23557.0
10°	24543.1	23922.4	23380.2	21981.6	20956.1
12.5°	24299.5	23557.0	22020.8	18555.7	17133.4
15°	24040.2	23195.6	19624.3	15345.8	14615.1
17.5°	23733.8	22716.2	16508.8	14072.9	13758.6
20°	23368.4	21938.3	14457.9	13196.8	12143.9
22.5°	22940.2	20732.2	13530.7	10969.2	8128.7
25°	22464.8	19070.3	12788.2	6667.2	4596.7
27.5°	21965.8	17105.9	11318.8	4050.6	3139.1
30°	21447.2	15086.5	8167.9	2903.4	1893.7
32.5°	20783.3	13436.4	4954.2	1634.4	844.7
35°	20154.7	12293.2	3323.8	719.0	400.7
37.5°	19427.8	11503.5	2428.0	381.1	282.9
40°	18716.7	10733.4	1386.9	286.8	271.1
42.5°	17821.0	9774.8	585.4	271.1	192.5
45°	17090.2	8034.4	310.4	212.2	117.9
47.5°	16123.7	5500.3	208.2	165.0	74.6
50°	15153.3	3398.4	176.8	129.6	58.9
52.5°	14230.1	2251.2	129.6	121.8	55.0
55°	13267.5	1555.8	102.1	117.9	55.0
57.5°	12198.9	766.1	86.4	113.9	51.1
60°	11094.9	298.6	82.5	110.0	51.1
62.5°	10002.7	165.0	78.6	90.4	47.1
65°	8843.7	129.6	74.6	70.7	47.1
67.5°	7696.5	106.1	70.7	66.8	47.1
70°	6525.7	94.3	66.8	58.9	43.2
72.5°	5331.4	86.4	62.9	58.9	39.3
75°	4148.8	78.6	62.9	51.1	39.3
77.5°	3103.7	74.6	58.9	51.1	31.4
80°	2062.6	66.8	55.0	43.2	27.5
82.5°	1139.3	62.9	47.1	39.3	27.5
85°	373.2	51.1	39.3	35.4	23.6
87.5°	58.9	35.4	31.4	31.4	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)