

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-LD5-5-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: 4ILED-LD5-5-N-TWBWG-UNV-L835-CD1-U  
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD DISTRIBUTION  
  
Light Source: (1) 3500 CCT, 80 CRI LEDS  
Ballast/Driver: -

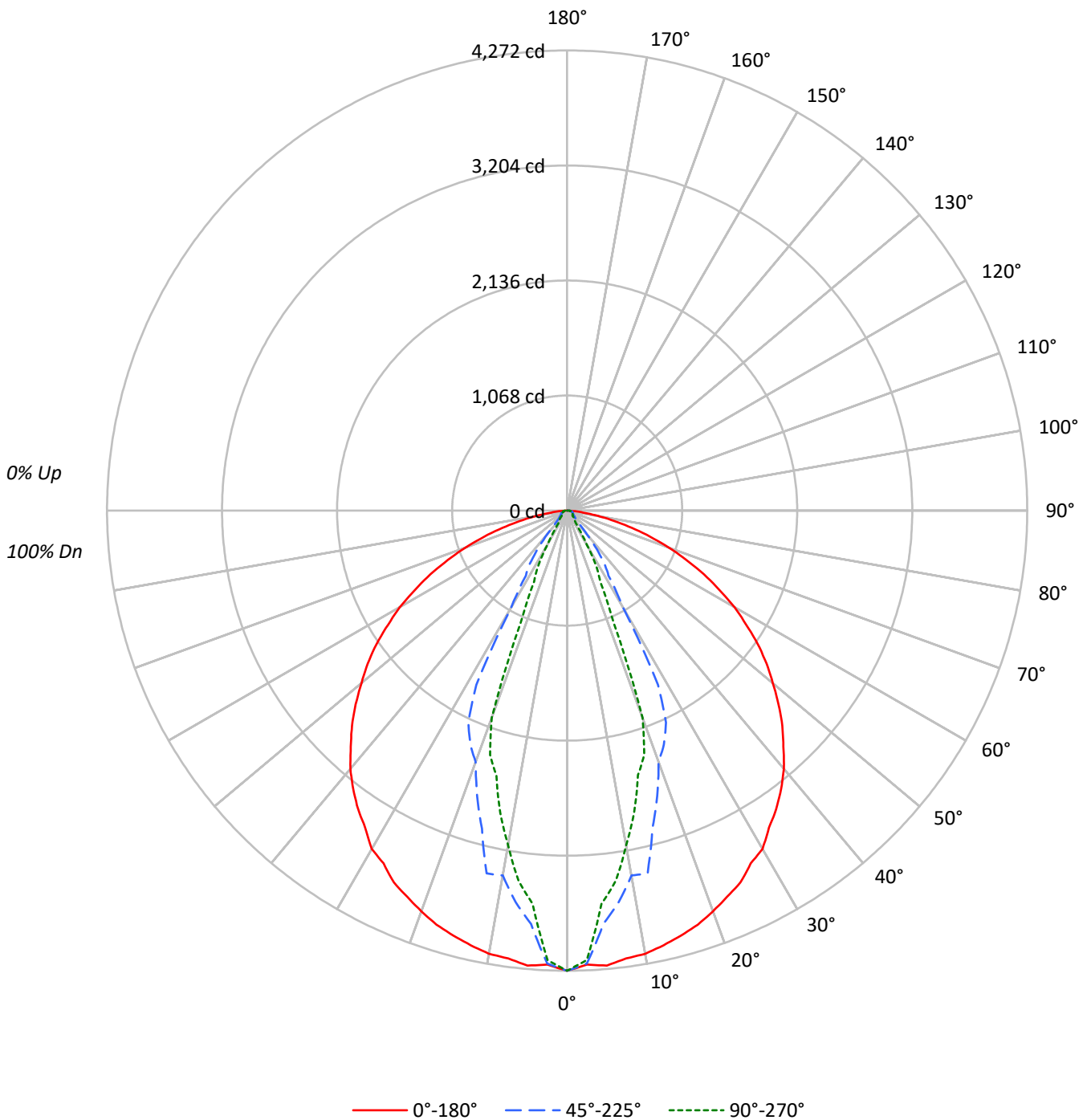
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4241.0 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: 4' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 33.5  
Input Voltage (V):  
Input Current (Ain): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40

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

	0°	45°	90°
0°	12540	12540	12540
5°	12466	11260	10703
10°	12398	10086	9236
15°	12330	9064	7506
20°	12256	7498	6149
25°	12196	6735	2237
30°	12121	3354	1166
35°	11921	2028	444
40°	11753	1014	387
45°	11443	439	286
50°	11055	371	261
55°	10674	310	274
60°	10098	322	267
65°	9235	349	272
70°	8060	363	283
75°	6444	400	311
80°	4343	471	345
85°	2316	556	432



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	364.9	8.6
10°-20°	884.6	20.9
20°-30°	963.6	22.7
30°-40°	741.3	17.5
40°-50°	547.7	12.9
50°-60°	344.6	8.1
60°-70°	225.7	5.3
70°-80°	126.3	3.0
80°-90°	42.3	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°	2213.1	52.2
0°-40°	2954.4	69.7
0°-60°	3846.7	90.7
0°-90°	4241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4241.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4272	4272	4272	4272	4272	
5°	4239	4206	3853	3625	3667	402
15°	4084	3551	3058	2655	2542	1153
25°	3809	2846	2171	967	726	1751
35°	3385	2098	604	192	133	2117
45°	2825	1117	116	98	76	2176
55°	2160	286	69	72	62	1924
65°	1401	71	60	54	48	1381
75°	621	53	48	43	39	666
85°	88	34	34	33	29	113
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4271.7	4271.7	4271.7	4271.7	4271.7
2.5°	4219.0	4220.5	4209.9	4188.9	4175.5
5°	4239.4	4206.4	3852.7	3625.3	3666.8
7.5°	4193.1	4022.6	3666.8	3496.9	3463.9
10°	4177.6	3740.4	3440.1	3382.5	3158.0
12.5°	4133.4	3569.2	3450.6	3087.8	2872.3
15°	4084.3	3551.0	3058.3	2654.8	2541.8
17.5°	4031.0	3391.0	2779.0	2433.0	2379.0
20°	3958.7	3288.5	2482.9	2236.5	2046.4
22.5°	3880.8	3239.4	2348.8	1457.6	1129.9
25°	3809.2	2846.4	2171.3	967.0	725.6
27.5°	3691.3	2814.8	1823.9	708.1	598.6
30°	3627.5	2522.9	1043.5	532.6	365.6
32.5°	3489.2	2294.1	714.4	323.5	218.3
35°	3384.6	2097.6	603.5	192.3	133.3
37.5°	3261.8	1967.8	451.2	131.9	115.8
40°	3131.3	1814.8	285.6	117.9	110.2
42.5°	2972.7	1634.4	169.1	110.9	94.7
45°	2825.3	1117.2	115.8	97.5	76.5
47.5°	2662.5	762.1	98.9	82.8	66.0
50°	2492.7	498.3	90.5	73.7	64.6
52.5°	2333.4	408.4	78.6	73.7	64.6
55°	2160.1	286.3	68.8	72.3	61.8
57.5°	1969.9	178.2	64.6	70.2	59.7
60°	1794.4	105.3	63.9	68.1	54.0
62.5°	1589.5	80.0	62.5	60.4	51.2
65°	1400.7	70.9	60.4	54.0	48.4
67.5°	1197.9	63.9	56.1	51.9	47.0
70°	1003.5	57.5	53.3	48.4	42.8
72.5°	808.4	55.4	50.5	45.6	40.7
75°	621.1	53.3	47.7	42.8	38.6
77.5°	451.9	49.8	44.9	41.4	36.5
80°	293.3	45.6	42.8	38.6	33.0
82.5°	163.5	41.4	39.3	35.8	31.6
85°	88.4	33.7	34.4	33.0	28.8
87.5°	16.1	23.9	29.5	28.8	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)