

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-TWB-UNV-L840-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 (P34185)  
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-TWB-UNV-L840-CD1-U  
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

**Summary**

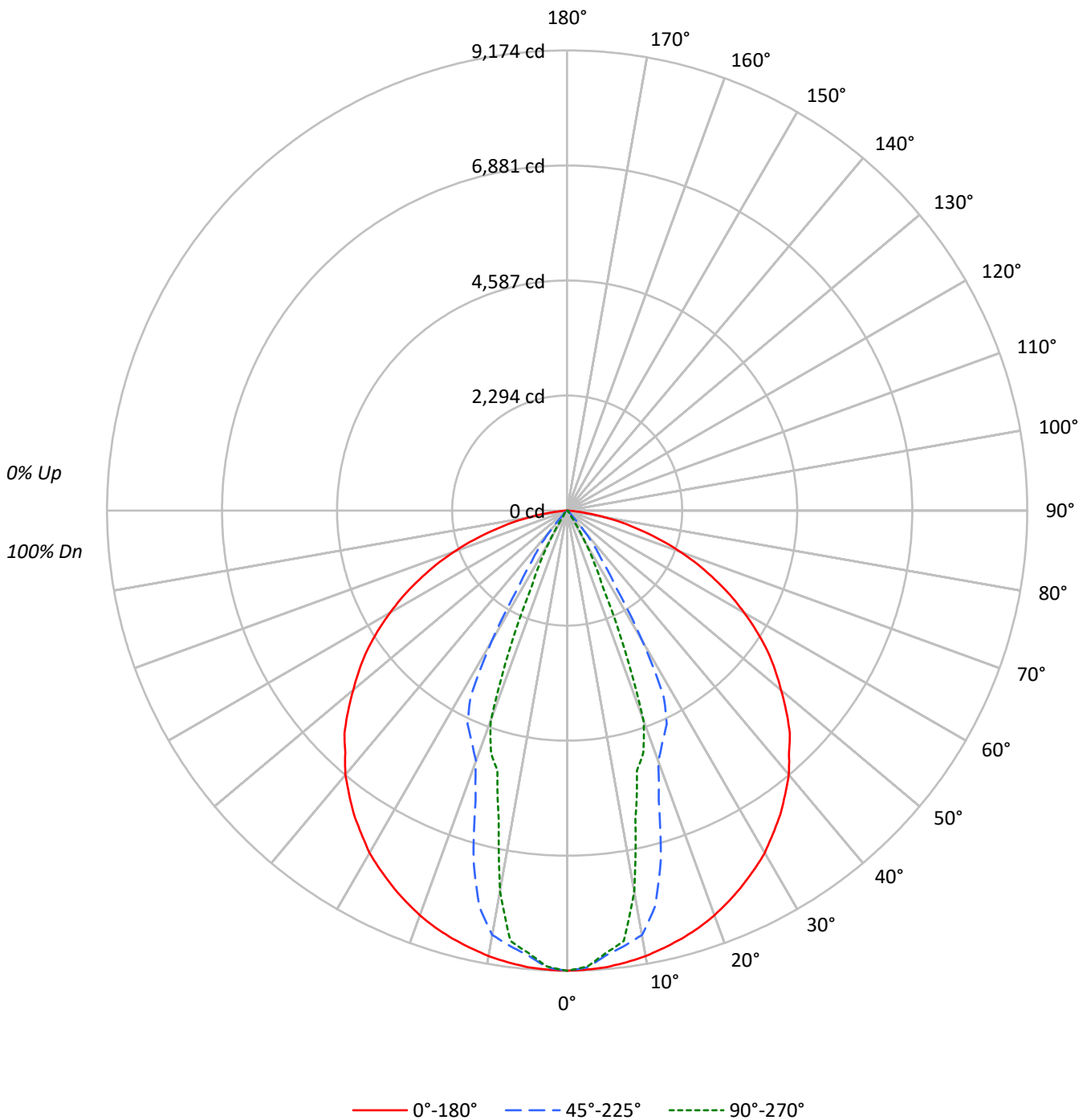
Lumens per Lamp: N/A  
Luminaire Lumens: 9227.0 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 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



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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°	13466	13466	13466
5°	13445	13015	12921
10°	13411	12613	11260
15°	13378	10710	7929
20°	13351	8046	6704
25°	13291	7317	2603
30°	13261	4846	1109
35°	13154	2064	245
40°	13041	911	175
45°	12874	218	81
50°	12527	135	44
55°	12256	85	45
60°	11714	77	46
65°	10991	80	49
70°	9949	85	53
75°	8260	99	58
80°	5982	115	53
85°	2020	122	65



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	842.7	9.1
10°-20°	2011.3	21.8
20°-30°	2199.2	23.8
30°-40°	1591.5	17.2
40°-50°	1187.7	12.9
50°-60°	693.6	7.5
60°-70°	431.2	4.7
70°-80°	224.9	2.4
80°-90°	44.9	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°	5053.2	54.8
0°-40°	6644.7	72.0
0°-60°	8526.0	92.4
0°-90°	9227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9227.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9174	9174	9174	9174	9174	
5°	9135	9102	8900	8872	8853	868
15°	8833	8523	7211	5639	5370	2494
25°	8254	7007	4699	2450	1689	3808
35°	7406	4517	1221	264	147	4630
45°	6280	2952	114	78	43	4822
55°	4875	572	38	43	20	4340
65°	3250	48	27	26	17	3213
75°	1524	29	23	19	14	1634
85°	137	19	14	13	9	260
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9173.9	9173.9	9173.9	9173.9	9173.9
2.5°	9159.4	9171.0	9116.1	9116.1	9100.3
5°	9134.9	9101.7	8899.6	8872.2	8853.4
7.5°	9081.5	8951.6	8753.8	8717.7	8655.6
10°	9018.0	8789.9	8590.7	8076.8	7700.0
12.5°	8928.5	8655.6	8091.2	6818.0	6295.4
15°	8833.2	8522.8	7210.6	5638.6	5370.1
17.5°	8720.6	8346.7	6065.9	5170.9	5055.4
20°	8586.4	8060.9	5312.3	4848.9	4462.1
22.5°	8429.0	7617.7	4971.7	4030.4	2986.7
25°	8254.3	7007.1	4698.8	2449.7	1689.0
27.5°	8071.0	6285.3	4158.9	1488.3	1153.4
30°	7880.4	5543.3	3001.2	1066.8	695.8
32.5°	7636.5	4937.0	1820.3	600.5	310.4
35°	7405.5	4516.9	1221.3	264.2	147.2
37.5°	7138.5	4226.8	892.1	140.0	103.9
40°	6877.2	3943.8	509.6	105.4	99.6
42.5°	6548.0	3591.6	215.1	99.6	70.7
45°	6279.5	2952.1	114.0	78.0	43.3
47.5°	5924.4	2021.0	76.5	60.6	27.4
50°	5567.8	1248.7	65.0	47.6	21.7
52.5°	5228.6	827.2	47.6	44.8	20.2
55°	4874.9	571.7	37.5	43.3	20.2
57.5°	4482.3	281.5	31.8	41.9	18.8
60°	4076.6	109.7	30.3	40.4	18.8
62.5°	3675.3	60.6	28.9	33.2	17.3
65°	3249.5	47.6	27.4	26.0	17.3
67.5°	2828.0	39.0	26.0	24.5	17.3
70°	2397.8	34.6	24.5	21.7	15.9
72.5°	1958.9	31.8	23.1	21.7	14.4
75°	1524.4	28.9	23.1	18.8	14.4
77.5°	1140.4	27.4	21.7	18.8	11.5
80°	757.9	24.5	20.2	15.9	10.1
82.5°	418.6	23.1	17.3	14.4	10.1
85°	137.1	18.8	14.4	13.0	8.7
87.5°	21.7	13.0	11.5	11.5	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)