

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-UNV-L850-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-UNV-L850-CD2-U  
Description: Metalux 8' ILED WITH OPEN NARROW DISTRIBUTION  
Light Source: (1) 5000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

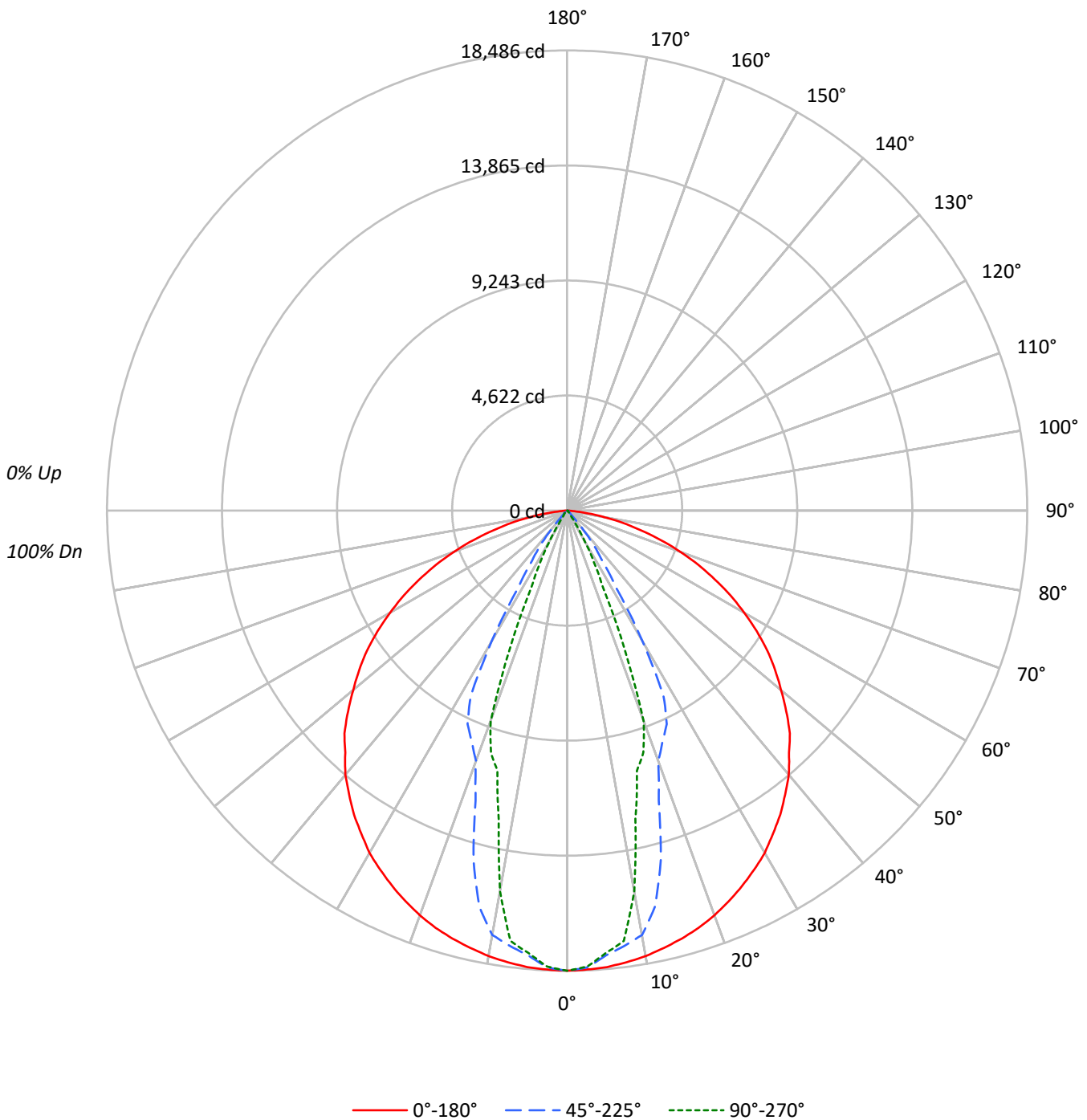
Lumens per Lamp: N/A  
Luminaire Lumens: 18593.0 lumens  
Efficiency: N/A  
Efficacy: 141.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 131.3  
Input Voltage (V):  
Input Current (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	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°	27134	27134	27134
5°	27092	26226	26037
10°	27025	25416	22689
15°	26958	21582	15977
20°	26903	16213	13508
25°	26782	14743	5245
30°	26721	9765	2236
35°	26507	4159	494
40°	26277	1835	352
45°	25942	439	163
50°	25244	271	88
55°	24697	172	90
60°	23604	156	93
65°	22148	162	98
70°	20047	172	106
75°	16644	200	117
80°	12054	231	107
85°	4072	247	131



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1698.1	9.1
10°-20°	4053.0	21.8
20°-30°	4431.5	23.8
30°-40°	3207.0	17.2
40°-50°	2393.4	12.9
50°-60°	1397.5	7.5
60°-70°	868.8	4.7
70°-80°	453.1	2.4
80°-90°	90.6	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°	10182.5	54.8
0°-40°	13389.6	72.0
0°-60°	17180.5	92.4
0°-90°	18593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18593.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	18486	18486	18486	18486	18486	
5°	18407	18340	17933	17878	17840	###
15°	17800	17174	14530	11362	10821	5026
25°	16633	14120	9468	4936	3403	7673
35°	14923	9102	2461	532	297	9330
45°	12654	5949	230	157	87	9716
55°	9823	1152	76	87	41	8746
65°	6548	96	55	52	35	6474
75°	3072	58	46	38	29	3292
85°	276	38	29	26	18	523
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	18486.0	18486.0	18486.0	18486.0	18486.0
2.5°	18456.9	18480.1	18369.6	18369.6	18337.6
5°	18407.4	18340.5	17933.3	17878.0	17840.2
7.5°	18299.8	18038.0	17639.5	17566.8	17441.7
10°	18171.8	17712.2	17310.8	16275.2	15516.0
12.5°	17991.5	17441.7	16304.3	13738.7	12685.6
15°	17799.5	17174.1	14529.9	11362.1	10821.1
17.5°	17572.6	16819.2	12223.1	10419.6	10186.9
20°	17302.0	16243.2	10704.7	9770.9	8991.4
22.5°	16985.0	15350.2	10018.2	8121.6	6018.5
25°	16633.0	14119.7	9468.4	4936.4	3403.4
27.5°	16263.6	12665.3	8380.5	2999.1	2324.2
30°	15879.6	11170.1	6047.6	2149.7	1402.1
32.5°	15388.0	9948.4	3668.1	1210.1	625.4
35°	14922.6	9101.9	2460.9	532.3	296.7
37.5°	14384.4	8517.2	1797.7	282.2	209.4
40°	13857.9	7947.1	1026.8	212.3	200.7
42.5°	13194.7	7237.3	433.4	200.7	142.5
45°	12653.7	5948.7	229.8	157.1	87.3
47.5°	11938.1	4072.4	154.2	122.2	55.3
50°	11219.6	2516.2	130.9	96.0	43.6
52.5°	10536.0	1666.8	96.0	90.2	40.7
55°	9823.3	1151.9	75.6	87.3	40.7
57.5°	9032.1	567.2	64.0	84.4	37.8
60°	8214.7	221.1	61.1	81.4	37.8
62.5°	7406.0	122.2	58.2	66.9	34.9
65°	6547.9	96.0	55.3	52.4	34.9
67.5°	5698.5	78.5	52.4	49.5	34.9
70°	4831.7	69.8	49.5	43.6	32.0
72.5°	3947.4	64.0	46.5	43.6	29.1
75°	3071.8	58.2	46.5	37.8	29.1
77.5°	2298.0	55.3	43.6	37.8	23.3
80°	1527.2	49.5	40.7	32.0	20.4
82.5°	843.6	46.5	34.9	29.1	20.4
85°	276.3	37.8	29.1	26.2	17.5
87.5°	43.6	26.2	23.3	23.3	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)