

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-LD5-7-N-TWBWG-UNV-L850-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-LD5-7-N-TWBWG-UNV-L850-CD1-U  
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

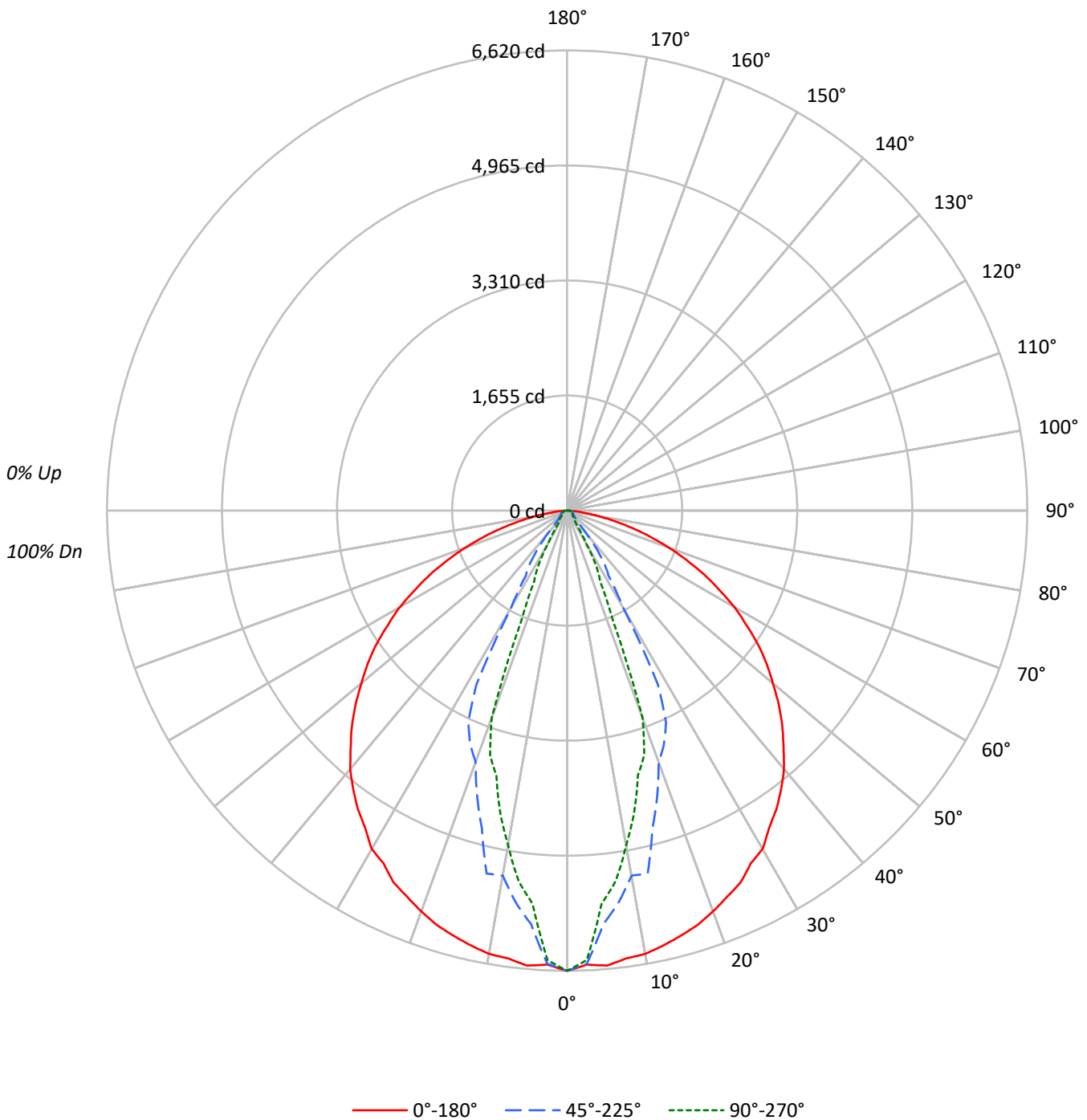
Lumens per Lamp: N/A  
Luminaire Lumens: 6573.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 50.4  
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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49					49			
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

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

	0°	45°	90°
0°	19435	19435	19435
5°	19320	17451	16588
10°	19216	15632	14314
15°	19110	14049	11633
20°	18995	11620	9530
25°	18903	10439	3466
30°	18786	5198	1807
35°	18476	3144	688
40°	18216	1571	600
45°	17736	681	444
50°	17133	576	405
55°	16544	481	424
60°	15651	499	413
65°	14313	540	422
70°	12491	563	438
75°	9986	620	482
80°	6731	729	534
85°	3589	862	669



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	565.5	8.6
10°-20°	1371.0	20.9
20°-30°	1493.5	22.7
30°-40°	1148.9	17.5
40°-50°	848.9	12.9
50°-60°	534.1	8.1
60°-70°	349.7	5.3
70°-80°	195.8	3.0
80°-90°	65.6	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°	3430.0	52.2
0°-40°	4578.9	69.7
0°-60°	5961.9	90.7
0°-90°	6573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6573.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6620	6620	6620	6620	6620	
5°	6570	6519	5971	5619	5683	622
15°	6330	5504	4740	4115	3940	1787
25°	5904	4412	3365	1499	1125	2714
35°	5246	3251	935	298	207	3281
45°	4379	1732	180	151	119	3372
55°	3348	444	107	112	96	2982
65°	2171	110	94	84	75	2141
75°	963	83	74	66	60	1033
85°	137	52	53	51	45	175
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6620.5	6620.5	6620.5	6620.5	6620.5
2.5°	6539.0	6541.2	6524.8	6492.2	6471.5
5°	6570.5	6519.4	5971.2	5618.8	5683.0
7.5°	6498.7	6234.4	5683.0	5419.8	5368.7
10°	6474.8	5797.2	5331.7	5242.5	4894.4
12.5°	6406.3	5531.8	5348.0	4785.7	4451.8
15°	6330.1	5503.5	4740.0	4114.6	3939.5
17.5°	6247.5	5255.5	4307.1	3770.9	3687.1
20°	6135.5	5096.7	3848.1	3466.4	3171.6
22.5°	6014.7	5020.6	3640.4	2259.1	1751.1
25°	5903.8	4411.5	3365.2	1498.8	1124.6
27.5°	5721.1	4362.6	2826.8	1097.4	927.8
30°	5622.1	3910.1	1617.3	825.5	566.7
32.5°	5407.8	3555.5	1107.2	501.4	338.3
35°	5245.8	3251.0	935.4	298.0	206.7
37.5°	5055.4	3049.8	699.4	204.5	179.5
40°	4853.1	2812.7	442.7	182.7	170.8
42.5°	4607.3	2533.1	262.1	171.8	146.8
45°	4378.9	1731.5	179.5	151.2	118.6
47.5°	4126.6	1181.2	153.4	128.3	102.2
50°	3863.3	772.2	140.3	114.2	100.1
52.5°	3616.4	633.0	121.8	114.2	100.1
55°	3347.8	443.8	106.6	112.0	95.7
57.5°	3053.0	276.3	100.1	108.8	92.5
60°	2781.1	163.1	99.0	105.5	83.7
62.5°	2463.5	124.0	96.8	93.5	79.4
65°	2171.0	109.9	93.5	83.7	75.0
67.5°	1856.6	99.0	87.0	80.5	72.9
70°	1555.3	89.2	82.7	75.0	66.3
72.5°	1253.0	85.9	78.3	70.7	63.1
75°	962.6	82.7	74.0	66.3	59.8
77.5°	700.4	77.2	69.6	64.2	56.6
80°	454.6	70.7	66.3	59.8	51.1
82.5°	253.4	64.2	60.9	55.5	48.9
85°	137.0	52.2	53.3	51.1	44.6
87.5°	25.0	37.0	45.7	44.6	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)