

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-LD5-11-N-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 (P34185)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ILED-LD5-11-N-UNV-L850-CD1-U  
Description: Metalux 4' ILED WITH OPEN NARROW DISTRIBUTION  
Light Source: (1) 5000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

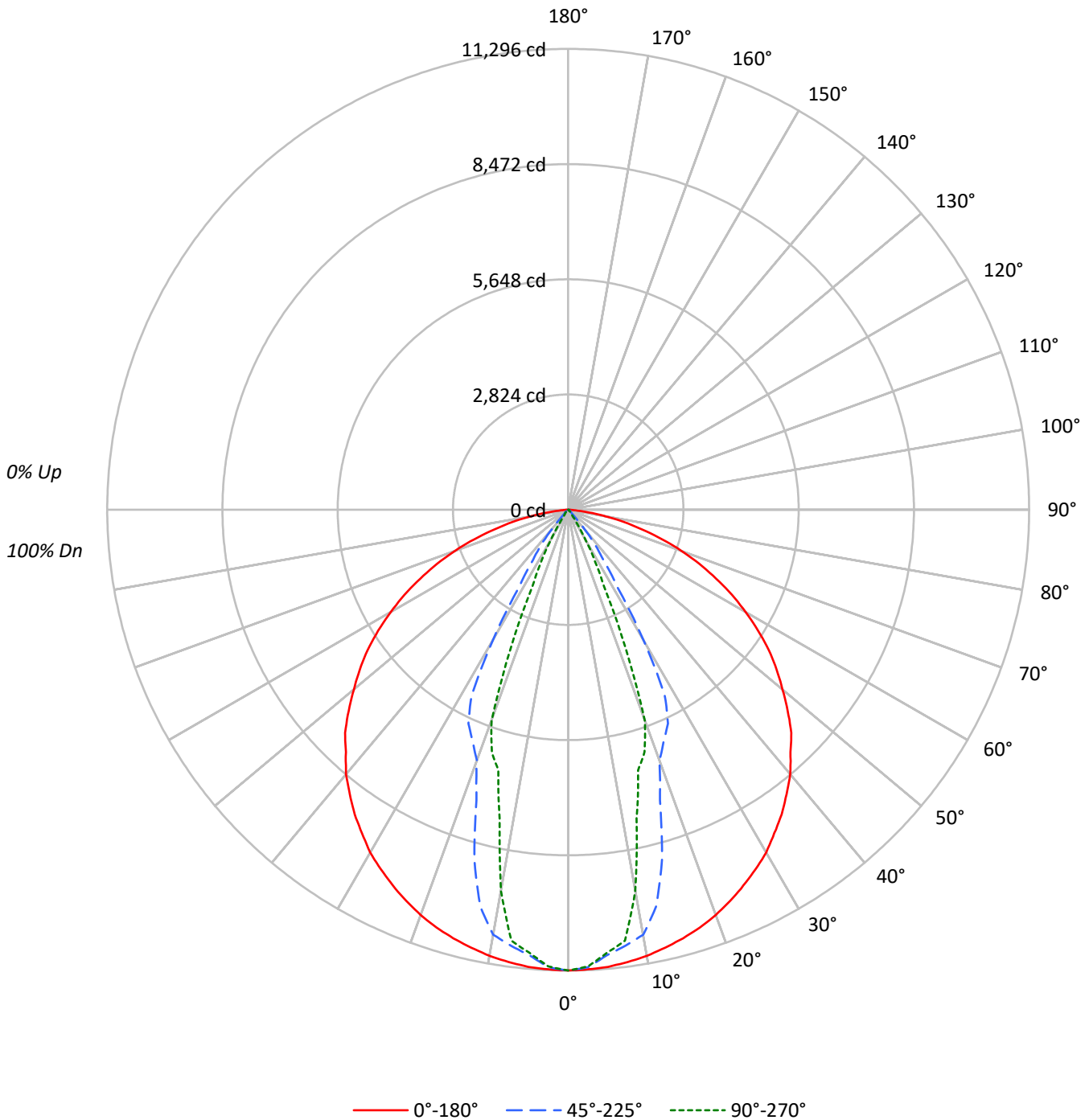
Lumens per Lamp: N/A  
Luminaire Lumens: 11361.0 lumens  
Efficiency: N/A  
Efficacy: 135.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 83.9  
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°	33160	33160	33160
5°	33072	32025	31820
10°	32953	31012	27728
15°	32834	26314	19525
20°	32730	19753	16508
25°	32541	17947	6410
30°	32423	11876	2732
35°	32115	5053	604
40°	31783	2227	430
45°	31316	532	200
50°	30404	328	108
55°	29662	208	110
60°	28247	188	114
65°	26378	195	120
70°	23711	206	129
75°	19473	238	143
80°	13817	274	130
85°	4425	288	160



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1037.6	9.1
10°-20°	2476.5	21.8
20°-30°	2707.8	23.8
30°-40°	1959.6	17.2
40°-50°	1462.4	12.9
50°-60°	854.0	7.5
60°-70°	530.9	4.7
70°-80°	276.9	2.4
80°-90°	55.3	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°	6221.9	54.8
0°-40°	8181.5	72.0
0°-60°	10497.9	92.4
0°-90°	11361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11361.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11296	11296	11296	11296	11296	
5°	11248	11207	10958	10924	10901	###
15°	10876	10494	8878	6943	6612	3071
25°	10163	8628	5786	3016	2080	4688
35°	9118	5562	1504	325	181	5701
45°	7732	3635	140	96	53	5937
55°	6002	704	46	53	25	5344
65°	4001	59	34	32	21	3956
75°	1877	36	28	23	18	2012
85°	169	23	18	16	11	320
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11295.6	11295.6	11295.6	11295.6	11295.6
2.5°	11277.8	11292.0	11224.5	11224.5	11204.9
5°	11247.6	11206.7	10957.9	10924.1	10901.0
7.5°	11181.8	11021.9	10778.4	10733.9	10657.5
10°	11103.6	10822.8	10577.5	9944.7	9480.8
12.5°	10993.4	10657.5	9962.5	8394.8	7751.4
15°	10876.1	10494.0	8878.3	6942.7	6612.1
17.5°	10737.5	10277.1	7468.8	6366.8	6224.6
20°	10572.2	9925.2	6541.0	5970.4	5494.1
22.5°	10378.4	9379.5	6121.5	4962.6	3677.5
25°	10163.4	8627.7	5785.6	3016.3	2079.6
27.5°	9937.6	7739.0	5120.8	1832.5	1420.2
30°	9703.0	6825.3	3695.3	1313.5	856.7
32.5°	9402.6	6078.8	2241.3	739.4	382.1
35°	9118.2	5561.6	1503.7	325.3	181.3
37.5°	8789.4	5204.3	1098.5	172.4	128.0
40°	8467.7	4856.0	627.4	129.8	122.6
42.5°	8062.4	4422.3	264.8	122.6	87.1
45°	7731.8	3634.9	140.4	96.0	53.3
47.5°	7294.6	2488.4	94.2	74.7	33.8
50°	6855.6	1537.5	80.0	58.7	26.7
52.5°	6437.9	1018.5	58.7	55.1	24.9
55°	6002.4	703.9	46.2	53.3	24.9
57.5°	5518.9	346.6	39.1	51.5	23.1
60°	5019.5	135.1	37.3	49.8	23.1
62.5°	4525.3	74.7	35.5	40.9	21.3
65°	4001.0	58.7	33.8	32.0	21.3
67.5°	3482.0	48.0	32.0	30.2	21.3
70°	2952.3	42.7	30.2	26.7	19.6
72.5°	2412.0	39.1	28.4	26.7	17.8
75°	1877.0	35.5	28.4	23.1	17.8
77.5°	1404.2	33.8	26.7	23.1	14.2
80°	933.2	30.2	24.9	19.6	12.4
82.5°	515.5	28.4	21.3	17.8	12.4
85°	168.9	23.1	17.8	16.0	10.7
87.5°	26.7	16.0	14.2	14.2	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)