

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-WG-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-LD5-11-N-WG-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

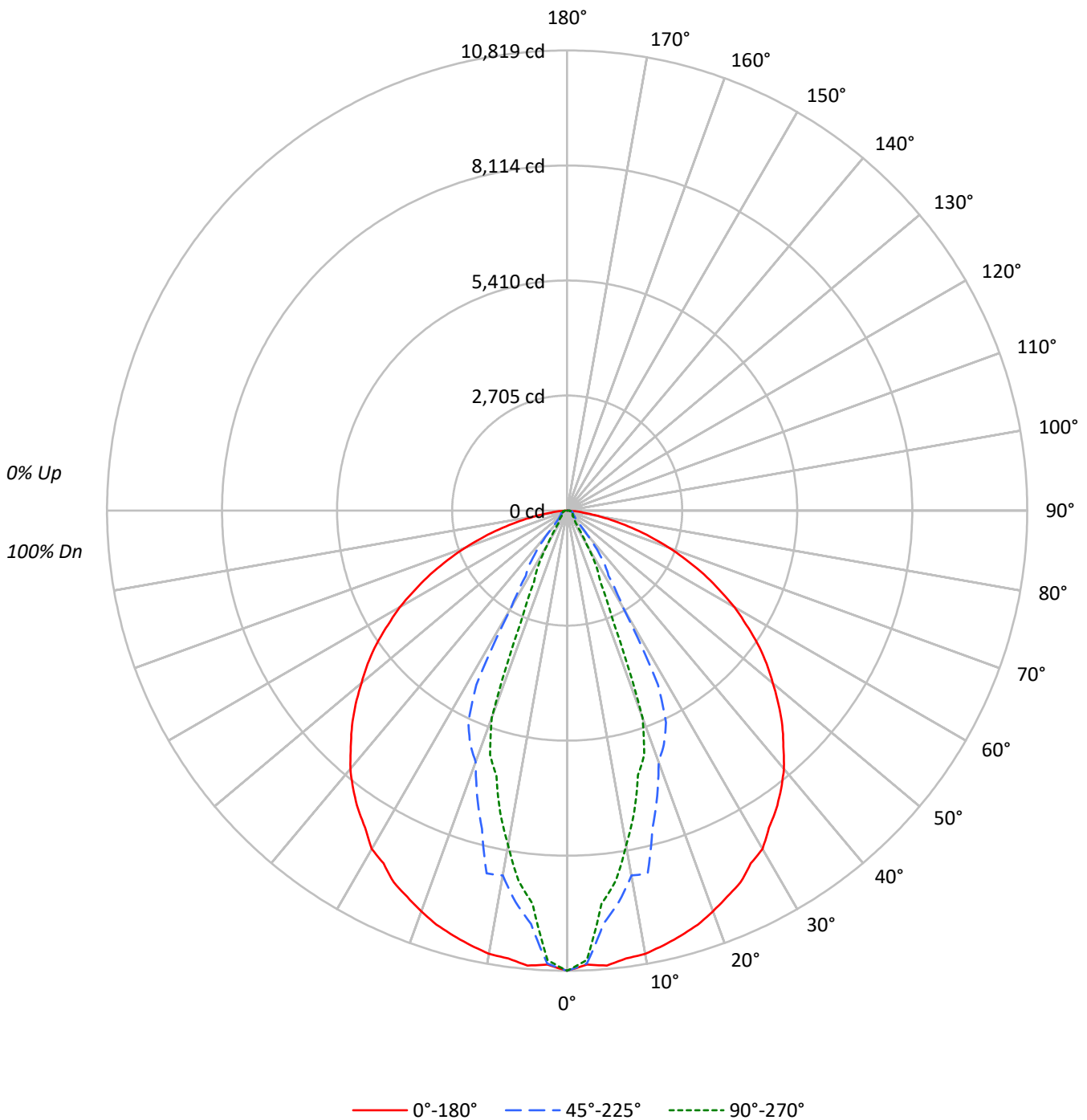
Lumens per Lamp: N/A
Luminaire Lumens: 10741.0 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 83.9
Input Voltage (V):
Input Current (A_{in}): 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°	31760	31760	31760
5°	31571	28517	27107
10°	31401	25544	23392
15°	31228	22957	19009
20°	31039	18989	15573
25°	30889	17058	5665
30°	30699	8494	2953
35°	30192	5137	1124
40°	29767	2568	980
45°	28983	1112	725
50°	27998	941	661
55°	27034	785	693
60°	25576	815	676
65°	23389	883	690
70°	20413	920	716
75°	16319	1013	788
80°	11000	1192	872
85°	5865	1408	1093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	924.1	8.6
10°-20°	2240.3	20.9
20°-30°	2440.5	22.7
30°-40°	1877.4	17.5
40°-50°	1387.2	12.9
50°-60°	872.8	8.1
60°-70°	571.5	5.3
70°-80°	320.0	3.0
80°-90°	107.1	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°	5605.0	52.2
0°-40°	7482.4	69.7
0°-60°	9742.4	90.7
0°-90°	10741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10819	10819	10819	10819	10819	
5°	10737	10653	9758	9182	9287	###
15°	10344	8993	7746	6724	6438	2921
25°	9647	7209	5499	2449	1838	4435
35°	8572	5312	1528	487	338	5361
45°	7156	2830	293	247	194	5511
55°	5471	725	174	183	156	4874
65°	3548	180	153	137	123	3499
75°	1573	135	121	108	98	1688
85°	224	85	87	84	73	285
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10818.7	10818.7	10818.7	10818.7	10818.7
2.5°	10685.4	10689.0	10662.3	10609.0	10575.2
5°	10736.9	10653.4	9757.6	9181.8	9286.6
7.5°	10619.6	10187.7	9286.6	8856.5	8773.0
10°	10580.5	9473.3	8712.5	8566.8	7998.1
12.5°	10468.6	9039.6	8739.2	7820.3	7274.7
15°	10344.1	8993.4	7745.7	6723.7	6437.5
17.5°	10209.1	8588.1	7038.3	6162.1	6025.2
20°	10026.0	8328.6	6288.2	5664.4	5182.7
22.5°	9828.7	8204.2	5948.8	3691.5	2861.5
25°	9647.4	7208.9	5499.1	2449.2	1837.8
27.5°	9348.8	7128.9	4619.3	1793.3	1516.1
30°	9187.1	6389.6	2642.9	1349.0	926.0
32.5°	8837.0	5810.1	1809.3	819.4	552.8
35°	8572.1	5312.5	1528.5	487.0	337.7
37.5°	8261.1	4983.7	1142.8	334.1	293.3
40°	7930.5	4596.2	723.4	298.6	279.0
42.5°	7528.8	4139.4	428.3	280.8	239.9
45°	7155.6	2829.5	293.3	247.1	193.7
47.5°	6743.2	1930.2	250.6	209.7	167.1
50°	6313.1	1261.9	229.3	186.6	163.5
52.5°	5909.7	1034.4	199.1	186.6	163.5
55°	5470.7	725.2	174.2	183.1	156.4
57.5°	4989.0	451.4	163.5	177.7	151.1
60°	4544.7	266.6	161.7	172.4	136.9
62.5°	4025.7	202.6	158.2	152.9	129.7
65°	3547.6	179.5	152.9	136.9	122.6
67.5°	3033.9	161.7	142.2	131.5	119.1
70°	2541.6	145.7	135.1	122.6	108.4
72.5°	2047.5	140.4	128.0	115.5	103.1
75°	1573.0	135.1	120.9	108.4	97.8
77.5°	1144.6	126.2	113.8	104.9	92.4
80°	742.9	115.5	108.4	97.8	83.5
82.5°	414.1	104.9	99.5	90.6	80.0
85°	223.9	85.3	87.1	83.5	72.9
87.5°	40.9	60.4	74.6	72.9	64.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)