

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-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-LD5-7-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

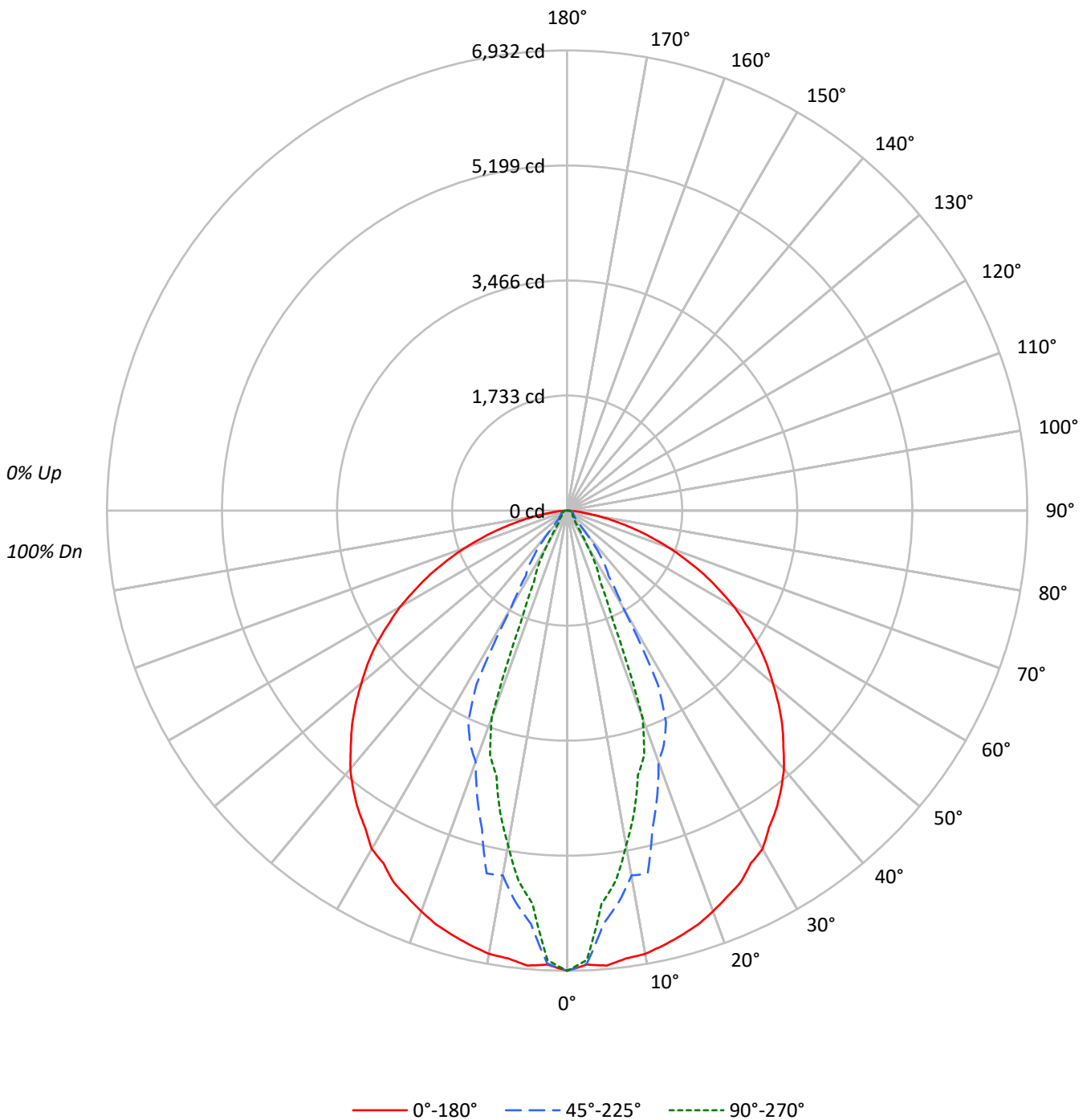
Lumens per Lamp: N/A
Luminaire Lumens: 6882.0 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 50.4
Input Voltage (V):
Input Current (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°	20349	20349	20349
5°	20228	18272	17368
10°	20119	16367	14987
15°	20009	14709	12180
20°	19887	12167	9978
25°	19791	10929	3629
30°	19670	5442	1892
35°	19345	3291	720
40°	19072	1645	628
45°	18570	713	465
50°	17939	603	424
55°	17321	503	444
60°	16387	522	433
65°	14985	565	442
70°	13079	589	459
75°	10455	648	505
80°	7048	764	559
85°	3759	902	700



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.1	8.6
10°-20°	1435.4	20.9
20°-30°	1563.7	22.7
30°-40°	1202.9	17.5
40°-50°	888.8	12.9
50°-60°	559.2	8.1
60°-70°	366.2	5.3
70°-80°	205.0	3.0
80°-90°	68.6	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°	3591.2	52.2
0°-40°	4794.1	69.7
0°-60°	6242.2	90.7
0°-90°	6882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6882.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6932	6932	6932	6932	6932	
5°	6879	6826	6252	5883	5950	652
15°	6628	5762	4963	4308	4125	1871
25°	6181	4619	3523	1569	1178	2842
35°	5492	3404	979	312	216	3435
45°	4585	1813	188	158	124	3531
55°	3505	465	112	117	100	3123
65°	2273	115	98	88	79	2242
75°	1008	86	77	70	63	1081
85°	144	55	56	54	47	183
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6931.8	6931.8	6931.8	6931.8	6931.8
2.5°	6846.4	6848.7	6831.6	6797.4	6775.8
5°	6879.4	6825.9	6251.9	5883.0	5950.2
7.5°	6804.2	6527.5	5950.2	5674.6	5621.0
10°	6779.2	6069.7	5582.3	5488.9	5124.5
12.5°	6707.4	5791.9	5599.4	5010.7	4661.0
15°	6627.7	5762.3	4962.8	4308.0	4124.7
17.5°	6541.2	5502.6	4509.6	3948.2	3860.5
20°	6423.9	5336.3	4029.0	3629.3	3320.7
22.5°	6297.5	5256.6	3811.5	2365.3	1833.4
25°	6181.3	4618.9	3523.4	1569.2	1177.5
27.5°	5990.0	4567.7	2959.7	1149.0	971.4
30°	5886.4	4093.9	1693.4	864.3	593.3
32.5°	5662.0	3722.7	1159.3	525.0	354.2
35°	5492.4	3403.8	979.4	312.0	216.4
37.5°	5293.1	3193.2	732.2	214.1	187.9
40°	5081.3	2944.9	463.5	191.3	178.8
42.5°	4823.9	2652.2	274.4	179.9	153.7
45°	4584.7	1812.9	187.9	158.3	124.1
47.5°	4320.6	1236.7	160.6	134.4	107.0
50°	4045.0	808.5	146.9	119.6	104.8
52.5°	3786.5	662.8	127.5	119.6	104.8
55°	3505.2	464.6	111.6	117.3	100.2
57.5°	3196.6	289.3	104.8	113.9	96.8
60°	2911.9	170.8	103.6	110.5	87.7
62.5°	2579.3	129.8	101.4	97.9	83.1
65°	2273.0	115.0	97.9	87.7	78.6
67.5°	1943.9	103.6	91.1	84.3	76.3
70°	1628.5	93.4	86.5	78.6	69.5
72.5°	1311.9	90.0	82.0	74.0	66.0
75°	1007.8	86.5	77.4	69.5	62.6
77.5°	733.4	80.9	72.9	67.2	59.2
80°	476.0	74.0	69.5	62.6	53.5
82.5°	265.3	67.2	63.8	58.1	51.2
85°	143.5	54.7	55.8	53.5	46.7
87.5°	26.2	38.7	47.8	46.7	41.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)