

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-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-LD5-11-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

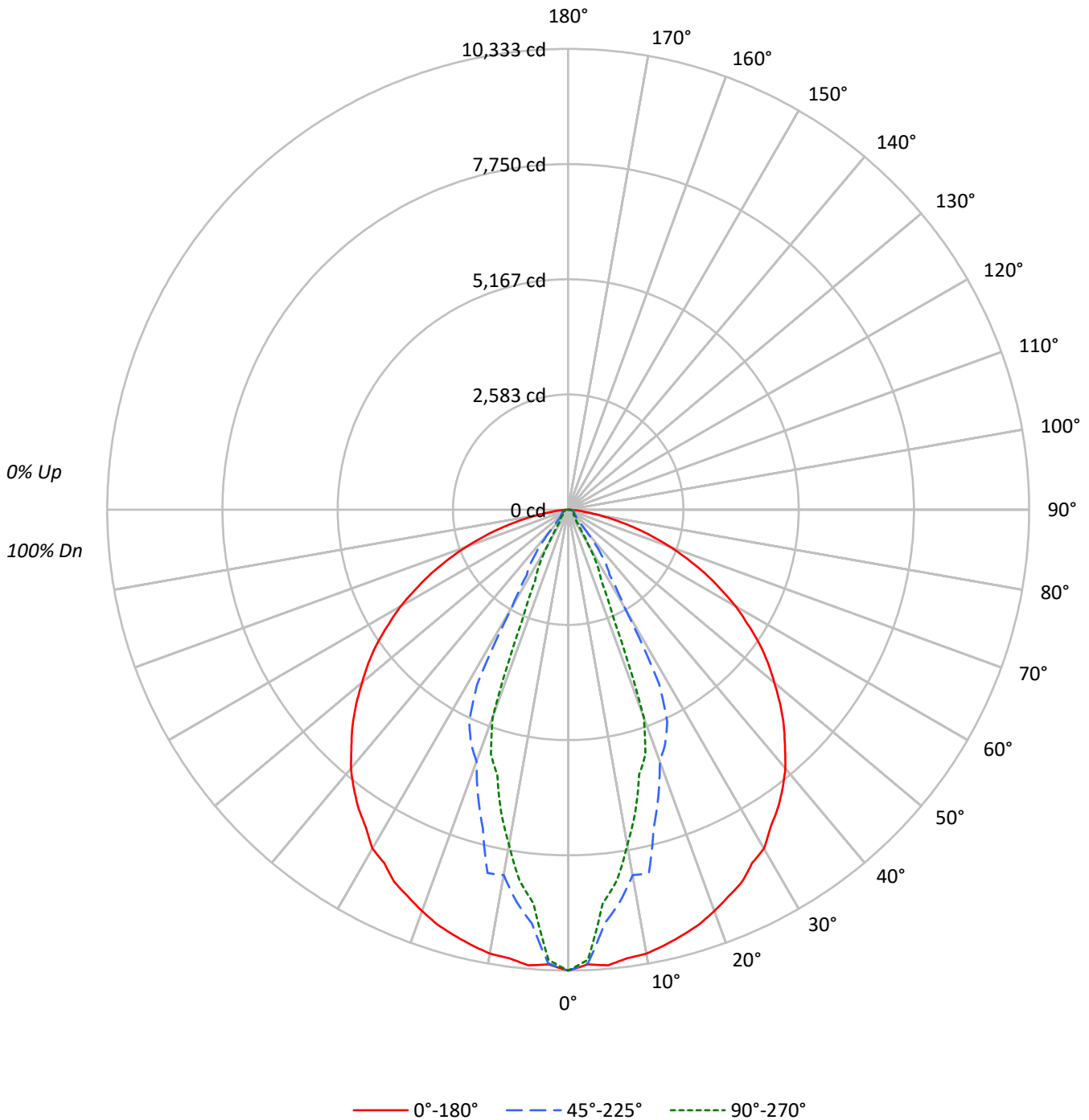
Lumens per Lamp: N/A
Luminaire Lumens: 10259.0 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	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°	30334	30334	30334
5°	30154	27238	25891
10°	29992	24398	22342
15°	29827	21927	18156
20°	29646	18137	14874
25°	29503	16292	5410
30°	29321	8113	2820
35°	28837	4906	1074
40°	28431	2453	936
45°	27682	1062	692
50°	26741	899	631
55°	25821	750	662
60°	24427	779	645
65°	22339	843	659
70°	19496	878	684
75°	15586	967	753
80°	10507	1139	833
85°	5603	1345	1043



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	882.6	8.6
10°-20°	2139.8	20.9
20°-30°	2331.0	22.7
30°-40°	1793.2	17.5
40°-50°	1324.9	12.9
50°-60°	833.6	8.1
60°-70°	545.9	5.3
70°-80°	305.6	3.0
80°-90°	102.3	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°	5353.4	52.2
0°-40°	7146.6	69.7
0°-60°	9305.2	90.7
0°-90°	10259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10259.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10333	10333	10333	10333	10333	
5°	10255	10175	9320	8770	8870	971
15°	9880	8590	7398	6422	6149	2790
25°	9214	6885	5252	2339	1755	4236
35°	8188	5074	1460	465	322	5120
45°	6834	2703	280	236	185	5263
55°	5225	693	166	175	149	4655
65°	3388	172	146	131	117	3342
75°	1502	129	115	104	93	1612
85°	214	82	83	80	70	273
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10333.2	10333.2	10333.2	10333.2	10333.2
2.5°	10205.9	10209.3	10183.8	10132.9	10100.6
5°	10255.1	10175.3	9319.8	8769.7	8869.9
7.5°	10143.1	9730.6	8869.9	8459.1	8379.3
10°	10105.7	9048.1	8321.6	8182.4	7639.1
12.5°	9998.8	8633.9	8347.0	7469.4	6948.2
15°	9880.0	8589.8	7398.1	6422.0	6148.7
17.5°	9750.9	8202.7	6722.4	5885.5	5754.8
20°	9576.1	7954.9	6006.1	5410.2	4950.2
22.5°	9387.7	7836.1	5681.8	3525.9	2733.1
25°	9214.5	6885.4	5252.3	2339.3	1755.3
27.5°	8929.3	6809.0	4412.0	1712.9	1448.0
30°	8774.8	6102.8	2524.3	1288.5	884.4
32.5°	8440.4	5549.4	1728.1	782.6	527.9
35°	8187.5	5074.1	1459.9	465.1	322.5
37.5°	7890.4	4760.0	1091.5	319.1	280.1
40°	7574.6	4390.0	690.9	285.2	266.5
42.5°	7191.0	3953.7	409.1	268.2	229.2
45°	6834.5	2702.6	280.1	236.0	185.0
47.5°	6440.6	1843.6	239.4	200.3	159.6
50°	6029.8	1205.3	219.0	178.2	156.2
52.5°	5644.5	988.0	190.1	178.2	156.2
55°	5225.2	692.6	166.4	174.9	149.4
57.5°	4765.1	431.2	156.2	169.8	144.3
60°	4340.7	254.6	154.5	164.7	130.7
62.5°	3845.0	193.5	151.1	146.0	123.9
65°	3388.4	171.5	146.0	130.7	117.1
67.5°	2897.8	154.5	135.8	125.6	113.7
70°	2427.5	139.2	129.0	117.1	103.6
72.5°	1955.6	134.1	122.2	110.3	98.5
75°	1502.4	129.0	115.4	103.6	93.4
77.5°	1093.2	120.5	108.6	100.2	88.3
80°	709.6	110.3	103.6	93.4	79.8
82.5°	395.5	100.2	95.1	86.6	76.4
85°	213.9	81.5	83.2	79.8	69.6
87.5°	39.0	57.7	71.3	69.6	61.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)