

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-LD5-9-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-LD5-9-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

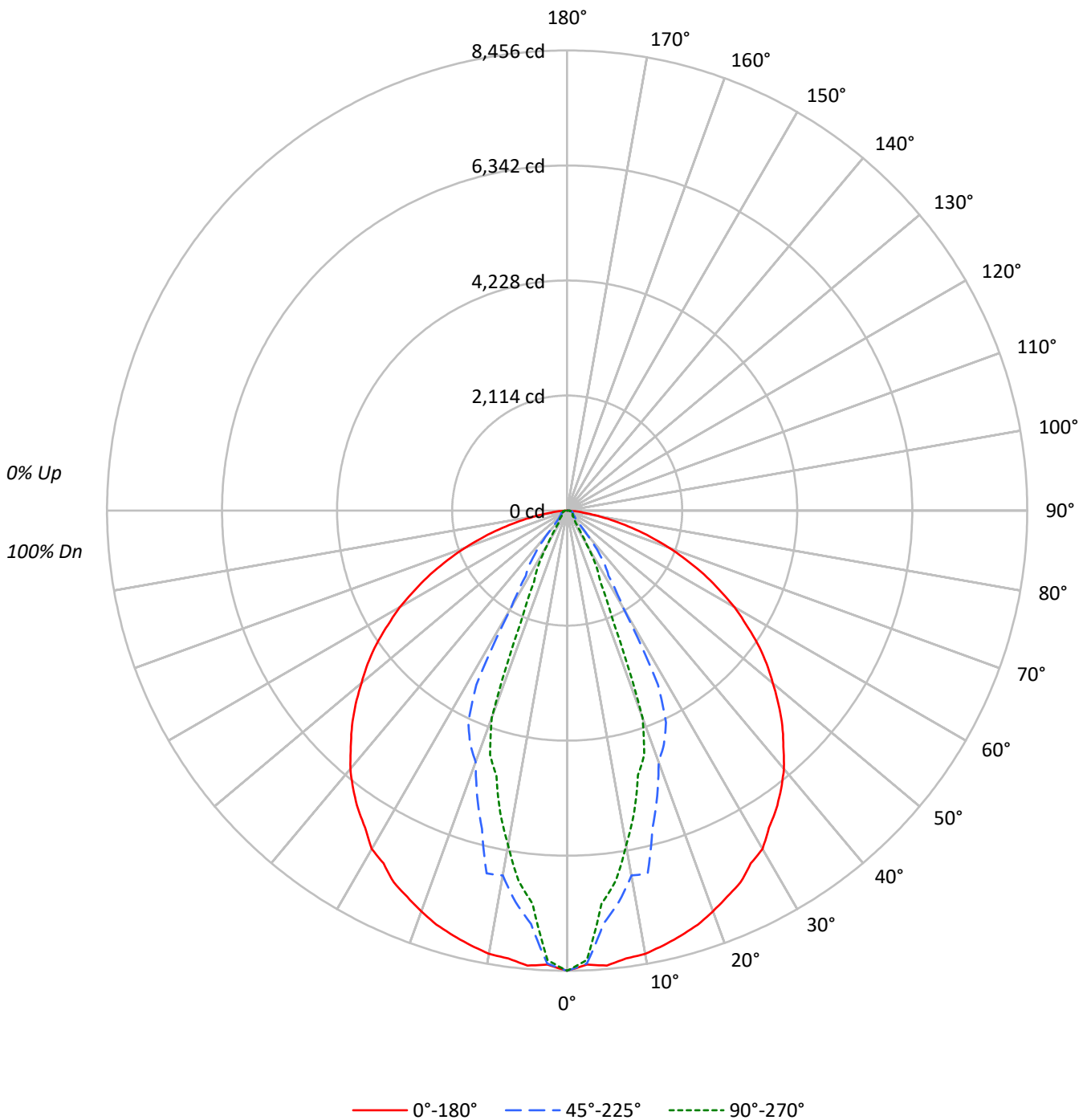
Lumens per Lamp: N/A
Luminaire Lumens: 8395.0 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 65.7
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	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°	24823	24823	24823
5°	24675	22289	21187
10°	24543	19965	18283
15°	24408	17943	14857
20°	24260	14842	12171
25°	24142	13332	4427
30°	23994	6639	2308
35°	23597	4015	879
40°	23265	2007	766
45°	22652	869	567
50°	21883	735	517
55°	21130	613	541
60°	19989	637	528
65°	18280	690	540
70°	15955	719	559
75°	12754	792	616
80°	8598	931	682
85°	4584	1101	854



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	722.3	8.6
10°-20°	1751.0	20.9
20°-30°	1907.5	22.7
30°-40°	1467.4	17.5
40°-50°	1084.2	12.9
50°-60°	682.2	8.1
60°-70°	446.7	5.3
70°-80°	250.1	3.0
80°-90°	83.7	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°	4380.8	52.2
0°-40°	5848.1	69.7
0°-60°	7614.5	90.7
0°-90°	8395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8395.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8456	8456	8456	8456	8456	
5°	8392	8326	7626	7176	7258	795
15°	8085	7029	6054	5255	5032	2283
25°	7540	5634	4298	1914	1436	3466
35°	6700	4152	1195	381	264	4190
45°	5593	2212	229	193	151	4307
55°	4276	567	136	143	122	3809
65°	2773	140	120	107	96	2735
75°	1229	106	94	85	76	1319
85°	175	67	68	65	57	223
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8455.7	8455.7	8455.7	8455.7	8455.7
2.5°	8351.5	8354.3	8333.5	8291.8	8265.4
5°	8391.8	8326.5	7626.4	7176.3	7258.3
7.5°	8300.1	7962.6	7258.3	6922.1	6856.8
10°	8269.6	7404.1	6809.6	6695.7	6251.2
12.5°	8182.1	7065.2	6830.4	6112.2	5685.8
15°	8084.8	7029.1	6053.9	5255.1	5031.5
17.5°	7979.3	6712.4	5501.0	4816.2	4709.2
20°	7836.2	6509.5	4914.8	4427.2	4050.7
22.5°	7682.0	6412.3	4649.5	2885.3	2236.5
25°	7540.3	5634.4	4298.0	1914.2	1436.4
27.5°	7306.9	5571.9	3610.4	1401.6	1184.9
30°	7180.5	4994.0	2065.7	1054.4	723.7
32.5°	6906.8	4541.1	1414.2	640.4	432.0
35°	6699.8	4152.2	1194.7	380.6	263.9
37.5°	6456.7	3895.2	893.2	261.2	229.2
40°	6198.4	3592.3	565.4	233.4	218.1
42.5°	5884.4	3235.3	334.8	219.5	187.5
45°	5592.7	2211.5	229.2	193.1	151.4
47.5°	5270.4	1508.6	195.9	163.9	130.6
50°	4934.2	986.3	179.2	145.9	127.8
52.5°	4618.9	808.5	155.6	145.9	127.8
55°	4275.8	566.8	136.1	143.1	122.2
57.5°	3899.3	352.8	127.8	138.9	118.1
60°	3552.0	208.4	126.4	134.7	107.0
62.5°	3146.4	158.4	123.6	119.5	101.4
65°	2772.7	140.3	119.5	107.0	95.9
67.5°	2371.3	126.4	111.1	102.8	93.1
70°	1986.5	113.9	105.6	95.9	84.7
72.5°	1600.3	109.7	100.0	90.3	80.6
75°	1229.4	105.6	94.5	84.7	76.4
77.5°	894.6	98.6	88.9	82.0	72.2
80°	580.7	90.3	84.7	76.4	65.3
82.5°	323.7	82.0	77.8	70.8	62.5
85°	175.0	66.7	68.1	65.3	57.0
87.5°	32.0	47.2	58.3	57.0	50.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)