

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-L835-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-L835-CD1-U
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

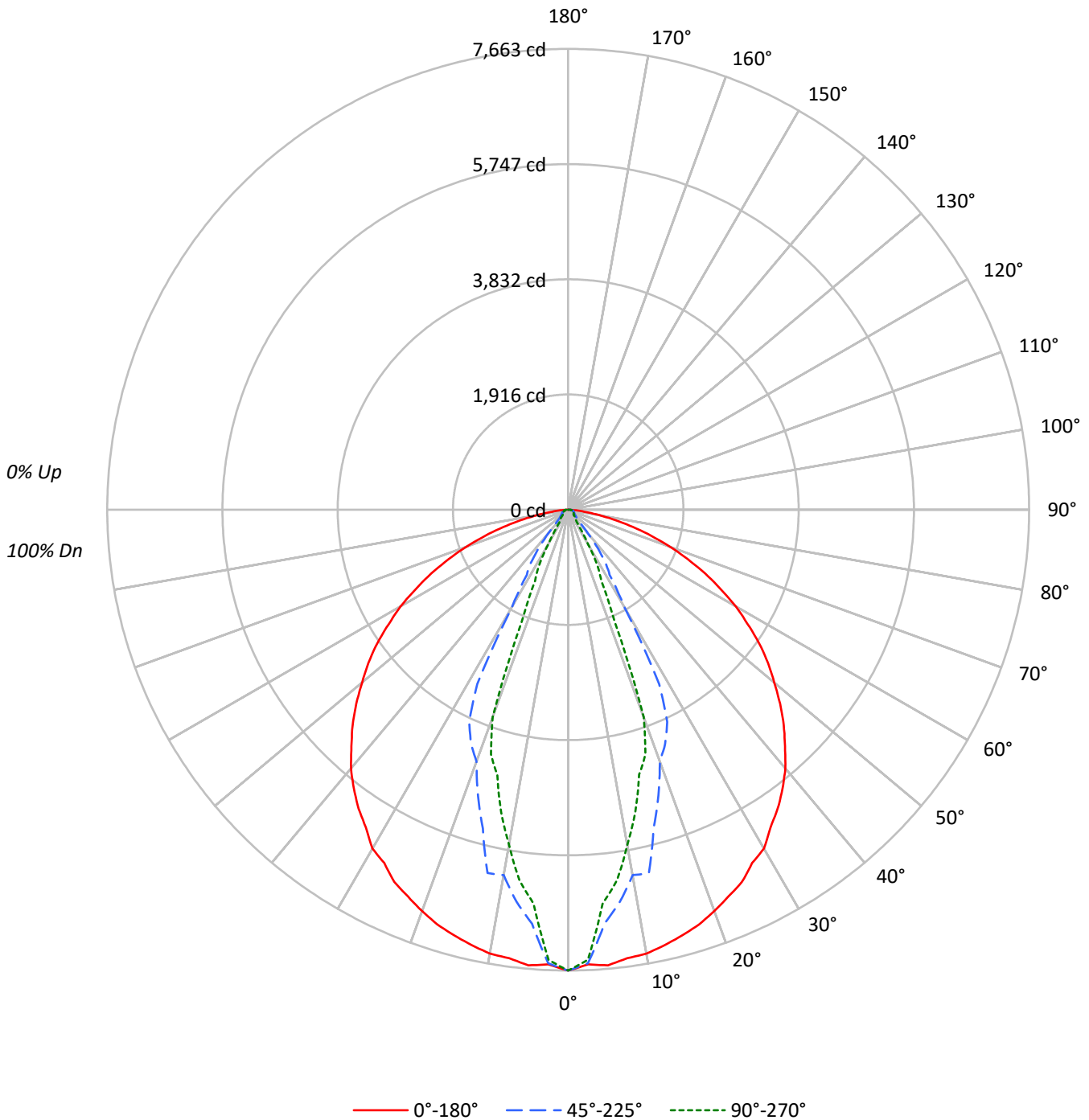
Lumens per Lamp: N/A
Luminaire Lumens: 7608.0 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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°	22496	22496	22496
5°	22362	20199	19200
10°	22242	18093	16568
15°	22120	16261	13464
20°	21985	13450	11030
25°	21879	12082	4012
30°	21744	6016	2092
35°	21385	3639	796
40°	21084	1819	694
45°	20529	788	514
50°	19831	666	468
55°	19149	556	491
60°	18116	578	479
65°	16566	625	489
70°	14459	652	507
75°	11558	717	558
80°	7791	844	618
85°	4155	997	774



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.6	8.6
10°-20°	1586.9	20.9
20°-30°	1728.7	22.7
30°-40°	1329.8	17.5
40°-50°	982.6	12.9
50°-60°	618.2	8.1
60°-70°	404.8	5.3
70°-80°	226.6	3.0
80°-90°	75.9	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°	3970.1	52.2
0°-40°	5299.9	69.7
0°-60°	6900.7	90.7
0°-90°	7608.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7608.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7663	7663	7663	7663	7663	
5°	7605	7546	6912	6504	6578	720
15°	7327	6370	5486	4762	4560	2069
25°	6833	5106	3895	1735	1302	3141
35°	6072	3763	1083	345	239	3797
45°	5068	2004	208	175	137	3903
55°	3875	514	123	130	111	3452
65°	2513	127	108	97	87	2478
75°	1114	96	86	77	69	1195
85°	159	60	62	59	52	202
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7663.0	7663.0	7663.0	7663.0	7663.0
2.5°	7568.6	7571.1	7552.3	7514.5	7490.6
5°	7605.1	7546.0	6911.5	6503.6	6577.8
7.5°	7522.0	7216.1	6577.8	6273.2	6214.0
10°	7494.3	6710.0	6171.2	6068.0	5665.1
12.5°	7415.0	6402.9	6190.1	5539.2	5152.8
15°	7326.9	6370.1	5486.4	4762.5	4559.8
17.5°	7231.2	6083.1	4985.3	4364.7	4267.7
20°	7101.6	5899.3	4454.1	4012.2	3671.0
22.5°	6961.8	5811.2	4213.6	2614.8	2026.9
25°	6833.4	5106.2	3895.1	1734.8	1301.7
27.5°	6621.9	5049.5	3271.9	1270.2	1073.9
30°	6507.3	4525.8	1872.0	955.5	655.9
32.5°	6259.3	4115.4	1281.6	580.4	391.5
35°	6071.8	3762.9	1082.7	344.9	239.2
37.5°	5851.5	3530.0	809.5	236.7	207.7
40°	5617.3	3255.6	512.4	211.5	197.7
42.5°	5332.8	2932.0	303.4	198.9	170.0
45°	5068.4	2004.2	207.7	175.0	137.2
47.5°	4776.3	1367.2	177.5	148.6	118.3
50°	4471.7	893.8	162.4	132.2	115.8
52.5°	4185.9	732.7	141.0	132.2	115.8
55°	3875.0	513.6	123.4	129.7	110.8
57.5°	3533.8	319.8	115.8	125.9	107.0
60°	3219.1	188.8	114.6	122.1	96.9
62.5°	2851.5	143.5	112.0	108.3	91.9
65°	2512.8	127.2	108.3	96.9	86.9
67.5°	2149.0	114.6	100.7	93.2	84.3
70°	1800.3	103.2	95.7	86.9	76.8
72.5°	1450.3	99.5	90.6	81.8	73.0
75°	1114.1	95.7	85.6	76.8	69.2
77.5°	810.7	89.4	80.6	74.3	65.5
80°	526.2	81.8	76.8	69.2	59.2
82.5°	293.3	74.3	70.5	64.2	56.7
85°	158.6	60.4	61.7	59.2	51.6
87.5°	29.0	42.8	52.9	51.6	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)