

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-WG-UNV-L840-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-WG-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

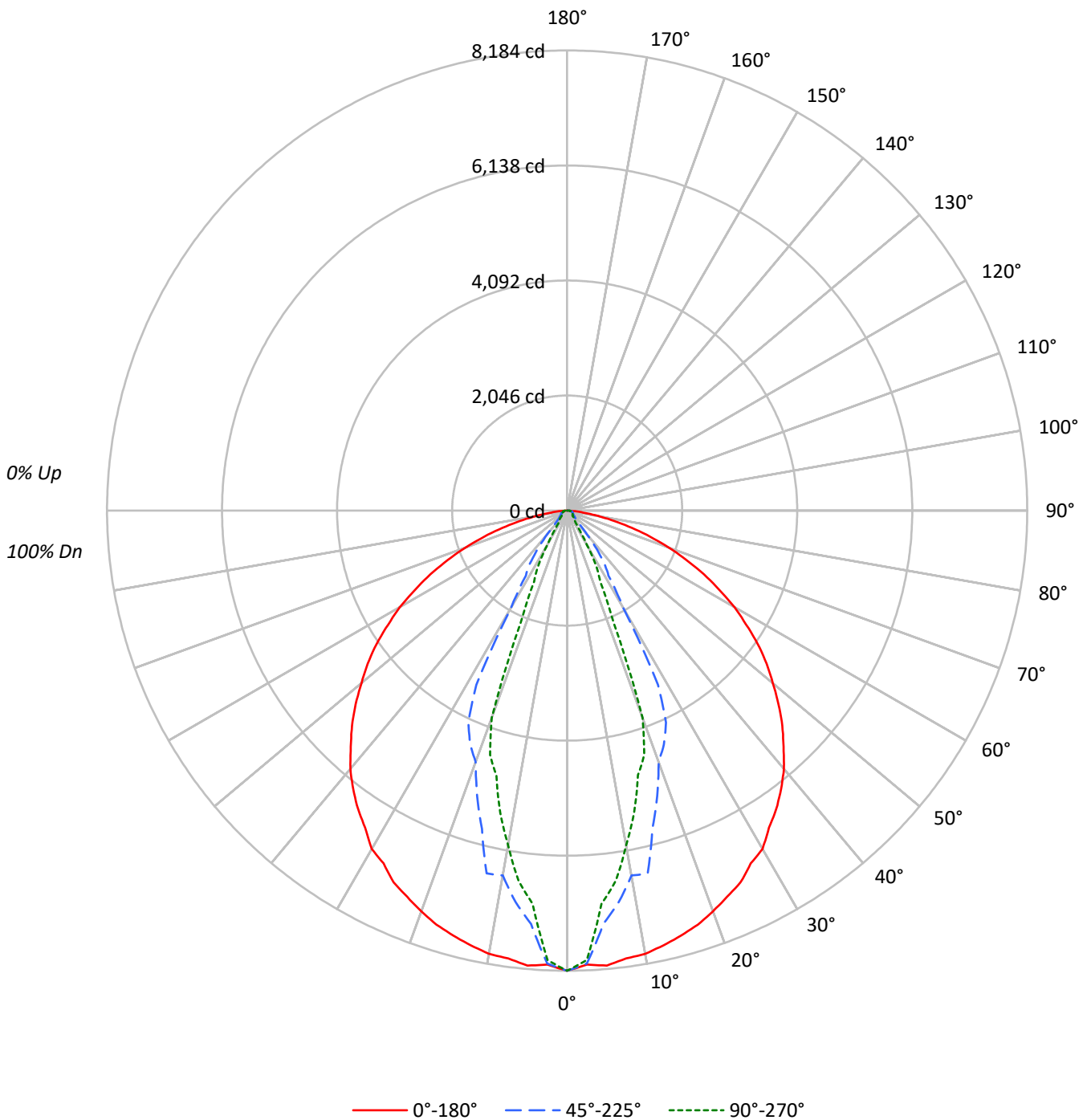
Lumens per Lamp: N/A
Luminaire Lumens: 8125.0 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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°	24024	24024	24024
5°	23882	21572	20505
10°	23753	19323	17694
15°	23623	17366	14380
20°	23479	14364	11780
25°	23366	12903	4285
30°	23222	6425	2234
35°	22838	3886	850
40°	22517	1942	741
45°	21924	841	548
50°	21179	712	500
55°	20450	594	524
60°	19346	617	511
65°	17692	667	522
70°	15441	696	542
75°	12344	766	596
80°	8321	901	660
85°	4438	1065	826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	699.0	8.6
10°-20°	1694.7	20.9
20°-30°	1846.1	22.7
30°-40°	1420.2	17.5
40°-50°	1049.3	12.9
50°-60°	660.2	8.1
60°-70°	432.3	5.3
70°-80°	242.0	3.0
80°-90°	81.0	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°	4239.9	52.2
0°-40°	5660.0	69.7
0°-60°	7369.6	90.7
0°-90°	8125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8184	8184	8184	8184	8184	
5°	8122	8059	7381	6946	7025	769
15°	7825	6803	5859	5086	4870	2209
25°	7298	5453	4160	1853	1390	3355
35°	6484	4019	1156	368	255	4055
45°	5413	2140	222	187	146	4168
55°	4138	548	132	138	118	3687
65°	2684	136	116	104	93	2647
75°	1190	102	91	82	74	1277
85°	169	64	66	63	55	216
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	<i>8183.8</i>	<i>8183.8</i>	<i>8183.8</i>	<i>8183.8</i>	<i>8183.8</i>
2.5°	<i>8082.9</i>	8085.6	8065.5	8025.1	7999.6
5°	<i>8121.9</i>	8058.7	7381.1	6945.5	7024.8
7.5°	<i>8033.2</i>	7706.5	7024.8	6699.5	6636.3
10°	<i>8003.6</i>	7166.0	6590.6	6480.3	6050.1
12.5°	<i>7918.9</i>	6838.0	6610.7	5915.7	5502.9
15°	<i>7824.8</i>	6803.0	5859.2	5086.1	4869.7
17.5°	<i>7722.6</i>	6496.5	5324.1	4661.3	4557.7
20°	<i>7584.1</i>	6300.2	4756.7	4284.8	3920.5
22.5°	<i>7434.9</i>	6206.1	4499.9	2792.5	2164.6
25°	<i>7297.8</i>	5453.2	4159.8	1852.7	1390.2
27.5°	<i>7071.9</i>	5392.7	3494.3	1356.6	1146.8
30°	<i>6949.6</i>	4833.4	1999.2	1020.5	700.5
32.5°	<i>6684.7</i>	4395.1	1368.7	619.8	418.1
35°	<i>6484.4</i>	4018.6	1156.2	368.4	255.4
37.5°	<i>6249.1</i>	3769.9	864.5	252.8	221.8
40°	<i>5999.0</i>	3476.8	547.2	225.9	211.1
42.5°	<i>5695.2</i>	3131.3	324.0	212.4	181.5
45°	<i>5412.8</i>	2140.4	221.8	186.9	146.5
47.5°	<i>5100.9</i>	1460.1	189.6	158.6	126.4
50°	<i>4775.6</i>	954.6	173.4	141.2	123.7
52.5°	<i>4470.4</i>	782.5	150.6	141.2	123.7
55°	<i>4138.3</i>	548.5	131.8	138.5	118.3
57.5°	<i>3773.9</i>	341.5	123.7	134.4	114.3
60°	<i>3437.8</i>	201.7	122.3	130.4	103.5
62.5°	<i>3045.2</i>	153.3	119.7	115.6	98.1
65°	<i>2683.6</i>	135.8	115.6	103.5	92.8
67.5°	<i>2295.0</i>	122.3	107.6	99.5	90.1
70°	<i>1922.6</i>	110.2	102.2	92.8	82.0
72.5°	<i>1548.8</i>	106.2	96.8	87.4	78.0
75°	<i>1189.9</i>	102.2	91.4	82.0	73.9
77.5°	<i>865.8</i>	95.5	86.0	79.3	69.9
80°	<i>562.0</i>	87.4	82.0	73.9	63.2
82.5°	<i>313.3</i>	79.3	75.3	68.6	60.5
85°	<i>169.4</i>	64.5	65.9	63.2	55.1
87.5°	<i>30.9</i>	45.7	56.5	55.1	48.4
90°	<i>0.0</i>	0.0	0.0	0.0	0.0

(END OF REPORT)