

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-WG-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-LD5-11-N-WG-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

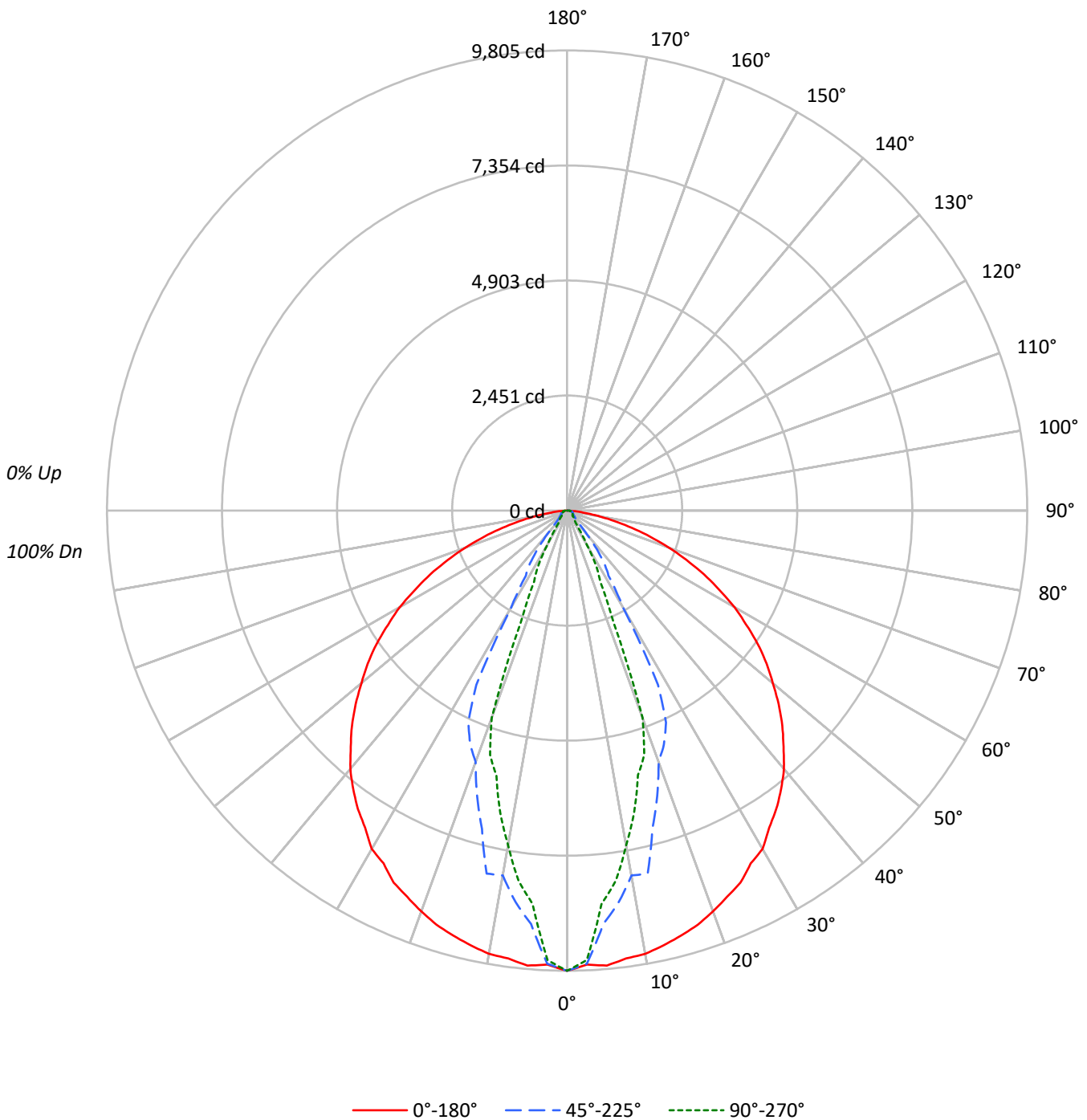
Lumens per Lamp: N/A
Luminaire Lumens: 9735.0 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	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°	28785	28785	28785
5°	28614	25846	24568
10°	28460	23152	21201
15°	28304	20807	17229
20°	28132	17211	14114
25°	27996	15460	5134
30°	27824	7698	2676
35°	27364	4656	1019
40°	26979	2327	888
45°	26268	1008	657
50°	25375	853	599
55°	24502	712	628
60°	23180	739	612
65°	21198	799	626
70°	18501	833	649
75°	14790	917	714
80°	9969	1081	791
85°	5318	1275	989



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.6	8.6
10°-20°	2030.5	20.9
20°-30°	2211.9	22.7
30°-40°	1701.6	17.5
40°-50°	1257.2	12.9
50°-60°	791.0	8.1
60°-70°	518.0	5.3
70°-80°	290.0	3.0
80°-90°	97.1	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°	5080.0	52.2
0°-40°	6781.6	69.7
0°-60°	8829.9	90.7
0°-90°	9735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9805	9805	9805	9805	9805	
5°	9731	9656	8844	8322	8417	922
15°	9375	8151	7020	6094	5835	2647
25°	8744	6534	4984	2220	1666	4020
35°	7769	4815	1385	441	306	4859
45°	6485	2564	266	224	176	4994
55°	4958	657	158	166	142	4417
65°	3215	163	138	124	111	3171
75°	1426	122	110	98	89	1530
85°	203	77	79	76	66	259
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9805.4	9805.4	9805.4	9805.4	9805.4
2.5°	9684.6	9687.8	9663.7	9615.3	9584.7
5°	9731.3	9655.6	8843.7	8321.8	8416.8
7.5°	9625.0	9233.6	8416.8	8027.0	7951.3
10°	9589.6	8586.0	7896.5	7764.4	7249.0
12.5°	9488.1	8192.9	7920.7	7087.9	6593.3
15°	9375.3	8151.1	7020.2	6094.0	5834.6
17.5°	9252.9	7783.8	6379.1	5584.9	5460.9
20°	9087.0	7548.6	5699.3	5133.9	4697.3
22.5°	8908.2	7435.8	5391.6	3345.8	2593.5
25°	8743.9	6533.7	4984.1	2219.8	1665.6
27.5°	8473.2	6461.2	4186.7	1625.4	1374.1
30°	8326.6	5791.1	2395.4	1222.7	839.3
32.5°	8009.3	5266.0	1639.9	742.6	501.0
35°	7769.3	4814.9	1385.4	441.4	306.1
37.5°	7487.4	4516.9	1035.8	302.8	265.8
40°	7187.7	4165.7	655.6	270.6	252.9
42.5°	6823.7	3751.7	388.2	254.5	217.5
45°	6485.4	2564.5	265.8	223.9	175.6
47.5°	6111.7	1749.4	227.1	190.1	151.4
50°	5721.8	1143.7	207.8	169.1	148.2
52.5°	5356.2	937.5	180.4	169.1	148.2
55°	4958.3	657.2	157.9	165.9	141.8
57.5°	4521.7	409.2	148.2	161.1	136.9
60°	4119.0	241.6	146.6	156.3	124.0
62.5°	3648.6	183.6	143.4	138.5	117.6
65°	3215.3	162.7	138.5	124.0	111.2
67.5°	2749.8	146.6	128.9	119.2	107.9
70°	2303.6	132.1	122.4	111.2	98.3
72.5°	1855.7	127.3	116.0	104.7	93.4
75°	1425.6	122.4	109.5	98.3	88.6
77.5°	1037.4	114.4	103.1	95.0	83.8
80°	673.3	104.7	98.3	88.6	75.7
82.5°	375.3	95.0	90.2	82.2	72.5
85°	203.0	77.3	78.9	75.7	66.0
87.5°	37.1	54.8	67.7	66.0	58.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)