

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-LD5-14-N-TWBWG-UNV-L835-CD2-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-LD5-14-N-TWBWG-UNV-L835-CD2-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

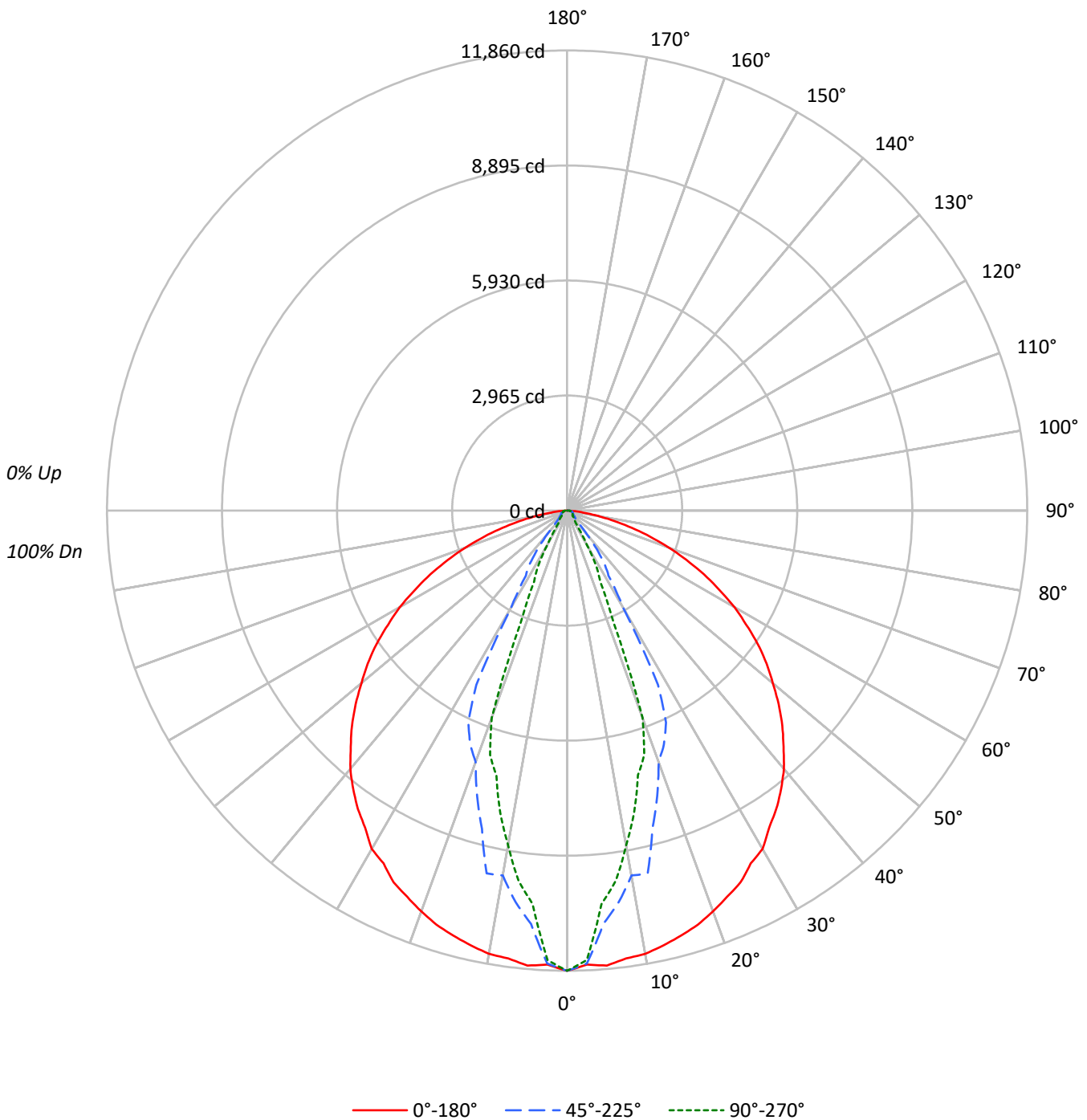
Lumens per Lamp: N/A
Luminaire Lumens: 11775.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 102
Input Voltage (V):
Input Current (Ain): 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°	34817	34817	34817
5°	34610	31263	29717
10°	34424	28003	25643
15°	34235	25167	20839
20°	34027	20817	17072
25°	33863	18700	6210
30°	33654	9311	3237
35°	33098	5631	1233
40°	32632	2815	1074
45°	31772	1219	795
50°	30693	1031	725
55°	29637	861	759
60°	28038	894	741
65°	25640	967	757
70°	22378	1008	785
75°	17890	1110	864
80°	12058	1307	957
85°	6431	1544	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1013.1	8.6
10°-20°	2456.0	20.9
20°-30°	2675.5	22.7
30°-40°	2058.2	17.5
40°-50°	1520.7	12.9
50°-60°	956.8	8.1
60°-70°	626.5	5.3
70°-80°	350.8	3.0
80°-90°	117.5	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°	6144.5	52.2
0°-40°	8202.7	69.7
0°-60°	10680.2	90.7
0°-90°	11775.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11775.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11860	11860	11860	11860	11860	
5°	11771	11679	10697	10066	10181	###
15°	11340	9859	8491	7371	7057	3202
25°	10576	7903	6028	2685	2015	4862
35°	9397	5824	1676	534	370	5877
45°	7844	3102	322	271	212	6041
55°	5997	795	191	201	172	5343
65°	3889	197	168	150	134	3836
75°	1724	148	132	119	107	1850
85°	246	94	96	92	80	313
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11860.2	11860.2	11860.2	11860.2	11860.2
2.5°	11714.0	11717.9	11688.7	11630.3	11593.2
5°	11770.6	11679.0	10697.0	10065.7	10180.6
7.5°	11642.0	11168.5	10180.6	9709.1	9617.5
10°	11599.1	10385.2	9551.3	9391.5	8768.0
12.5°	11476.3	9909.8	9580.5	8573.2	7975.0
15°	11339.9	9859.1	8491.3	7371.0	7057.3
17.5°	11191.9	9414.9	7715.8	6755.3	6605.2
20°	10991.2	9130.4	6893.6	6209.7	5681.7
22.5°	10774.9	8994.0	6521.4	4046.9	3137.0
25°	10576.2	7902.9	6028.5	2685.0	2014.7
27.5°	10248.8	7815.2	5064.0	1966.0	1662.0
30°	10071.5	7004.7	2897.3	1478.9	1015.1
32.5°	9687.7	6369.5	1983.5	898.2	606.0
35°	9397.3	5823.9	1675.7	533.9	370.2
37.5°	9056.4	5463.4	1252.8	366.3	321.5
40°	8694.0	5038.7	793.0	327.3	305.9
42.5°	8253.6	4537.9	469.6	307.9	263.0
45°	7844.4	3101.9	321.5	270.8	212.4
47.5°	7392.4	2116.0	274.7	229.9	183.2
50°	6920.9	1383.4	251.3	204.6	179.3
52.5°	6478.6	1134.0	218.2	204.6	179.3
55°	5997.3	795.0	190.9	200.7	171.5
57.5°	5469.3	494.9	179.3	194.8	165.6
60°	4982.2	292.3	177.3	189.0	150.0
62.5°	4413.2	222.1	173.4	167.6	142.2
65°	3889.1	196.8	167.6	150.0	134.4
67.5°	3326.0	177.3	155.9	144.2	130.5
70°	2786.3	159.8	148.1	134.4	118.9
72.5°	2244.6	153.9	140.3	126.6	113.0
75°	1724.4	148.1	132.5	118.9	107.2
77.5°	1254.8	138.3	124.7	115.0	101.3
80°	814.4	126.6	118.9	107.2	91.6
82.5°	454.0	115.0	109.1	99.4	87.7
85°	245.5	93.5	95.5	91.6	79.9
87.5°	44.8	66.2	81.8	79.9	70.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)