Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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-W-TWB-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Report Generated By E9911574 / USPTCWHP6081592

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P#
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34175)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	4ILED-LD5-9-W-TWB-UNV-L835-CD1-U
Description:	Metalux 4' ILED WITH THIN WHITE BAFFLE DISTRIBUION
Light Source:	(1) 3500 CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

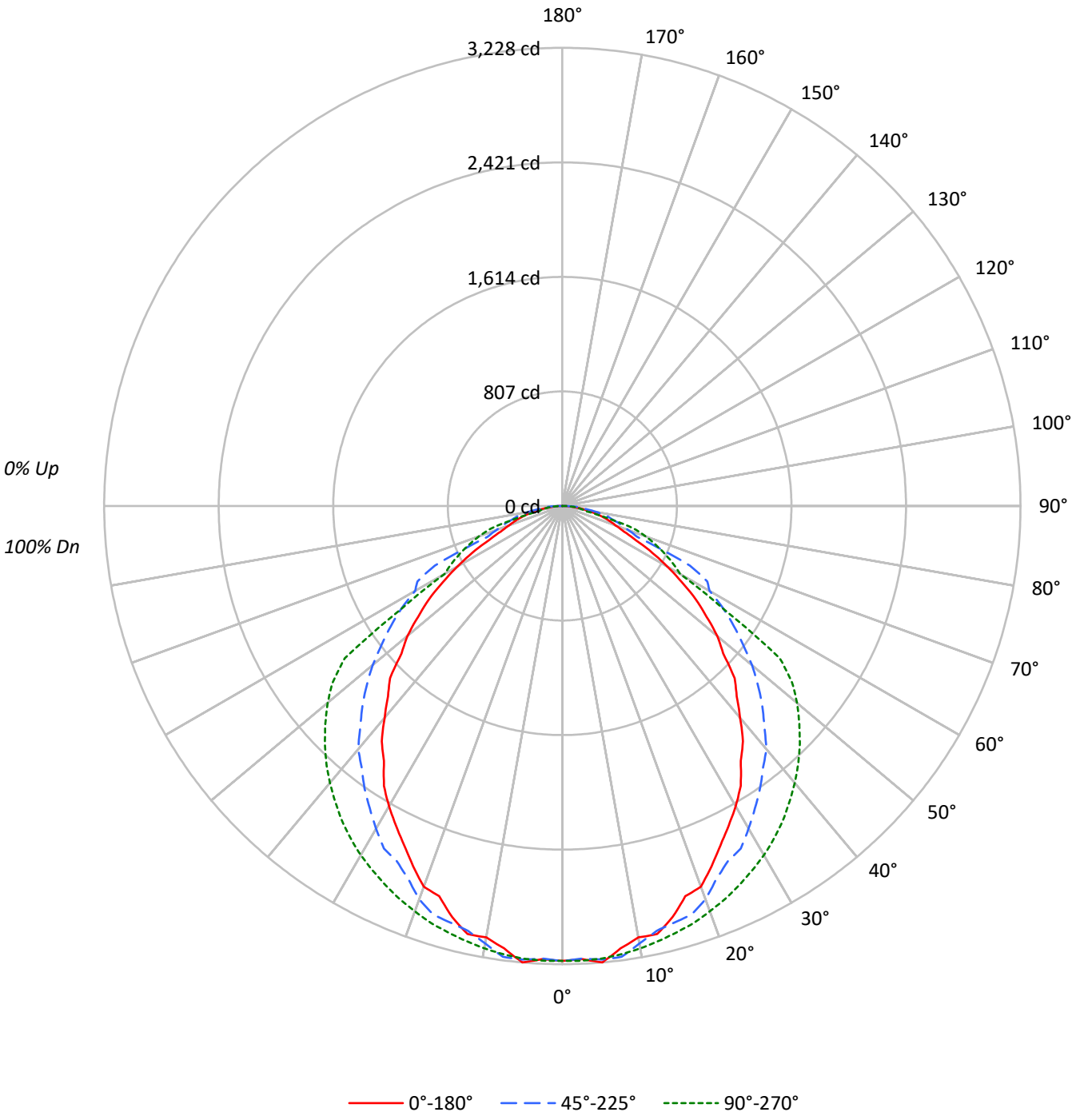
Lumens per Lamp:	N/A
Luminaire Lumens:	8082.0 lumens
Efficiency:	N/A
Efficacy:	123.0 lumens/watt
Spacing Criteria (0/90/45):	1.14 / 1.32 / 1.34
Luminous Opening:	Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type:	Direct
Input Watts (W):	65.7
Input Voltage (V):	
Input Current (Ain):	NR
Voltage 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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P#
CATALOG NUMBER: 4ILED-LD5-9-W-TWB-UNV-L835-CD1-U

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P#
CATALOG NUMBER: 4ILED-LD5-9-W-TWB-UNV-L835-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9408	9408	9408
5°	9492	9374	9340
10°	9160	9174	9255
15°	9053	9007	9182
20°	8838	8904	9131
25°	8441	8560	9085
30°	8161	8433	9056
35°	7717	8163	9013
40°	7313	7938	8943
45°	6952	7554	8855
50°	6319	7158	8722
55°	5673	6654	8282
60°	4806	6035	4735
65°	3772	5725	4478
70°	3204	3364	4117
75°	3025	3045	2596
80°	2710	2669	1529
85°	2046	1972	1298

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P#
CATALOG NUMBER: 4ILED-LD5-9-W-TWB-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.6	3.8
10°-20°	862.0	10.7
20°-30°	1286.6	15.9
30°-40°	1531.4	18.9
40°-50°	1548.4	19.2
50°-60°	1304.6	16.1
60°-70°	753.9	9.3
70°-80°	372.1	4.6
80°-90°	119.4	1.5
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°	2452.2	30.3
0°-40°	3983.6	49.3
0°-60°	6836.7	84.6
0°-90°	8082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8082.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3205	3205	3205	3205	3205	
5°	3228	3235	3207	3191	3200	302
15°	2999	3045	3039	3121	3110	842
25°	2636	2685	2760	2894	2947	1217
35°	2191	2280	2429	2635	2707	1378
45°	1716	1769	1992	2231	2366	1302
55°	1148	1238	1476	1760	1870	1019
65°	572	698	992	745	795	589
75°	292	359	364	400	322	306
85°	78	96	122	145	87	90
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P#
CATALOG NUMBER: 4ILED-LD5-9-W-TWB-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3204.8	3204.8	3204.8	3204.8	3204.8
2.5°	3195.1	3198.7	3191.4	3209.7	3206.0
5°	3228.0	3235.3	3207.3	3191.4	3199.9
7.5°	3143.8	3159.7	3203.6	3182.9	3185.3
10°	3086.5	3088.9	3129.2	3193.8	3164.6
12.5°	3088.9	3084.0	3065.7	3176.8	3138.9
15°	2998.6	3045.0	3038.9	3120.6	3109.7
17.5°	2882.7	2927.9	3019.4	3064.5	3080.4
20°	2854.7	2838.8	2948.6	2992.5	3038.9
22.5°	2746.1	2809.6	2840.0	2937.6	2997.4
25°	2636.3	2685.1	2759.5	2893.7	2947.4
27.5°	2537.5	2590.0	2721.7	2852.2	2894.9
30°	2442.3	2491.1	2624.1	2799.8	2840.0
32.5°	2338.6	2399.6	2525.3	2736.4	2776.6
35°	2191.0	2280.1	2428.9	2635.1	2707.1
37.5°	2089.8	2148.3	2322.8	2527.7	2627.8
40°	1948.3	2042.2	2236.2	2444.8	2547.3
42.5°	1817.7	1910.4	2105.6	2341.1	2460.6
45°	1716.5	1768.9	1992.2	2231.3	2365.5
47.5°	1535.9	1668.9	1869.0	2114.2	2264.2
50°	1424.9	1516.4	1744.5	2001.9	2158.1
52.5°	1280.9	1383.4	1604.2	1877.5	2039.8
55°	1148.0	1238.3	1476.1	1760.4	1870.2
57.5°	996.7	1112.6	1343.2	1627.4	1334.6
60°	854.0	969.9	1196.8	1099.2	958.9
62.5°	717.3	819.8	1151.6	827.1	879.6
65°	572.2	697.8	991.8	745.4	795.4
67.5°	469.7	557.5	572.2	667.3	711.2
70°	398.9	441.6	494.1	591.7	623.4
72.5°	346.5	364.8	429.4	525.8	530.7
75°	291.6	358.7	363.5	400.1	322.1
77.5°	233.0	289.1	314.7	233.0	164.7
80°	183.0	196.4	242.8	205.0	146.4
82.5°	126.9	145.2	168.4	176.9	120.8
85°	78.1	96.4	122.0	145.2	86.6
87.5°	32.9	52.5	84.2	112.2	47.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)