

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-TWBWG-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 (P34176)
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-TWBWG-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

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

Summary

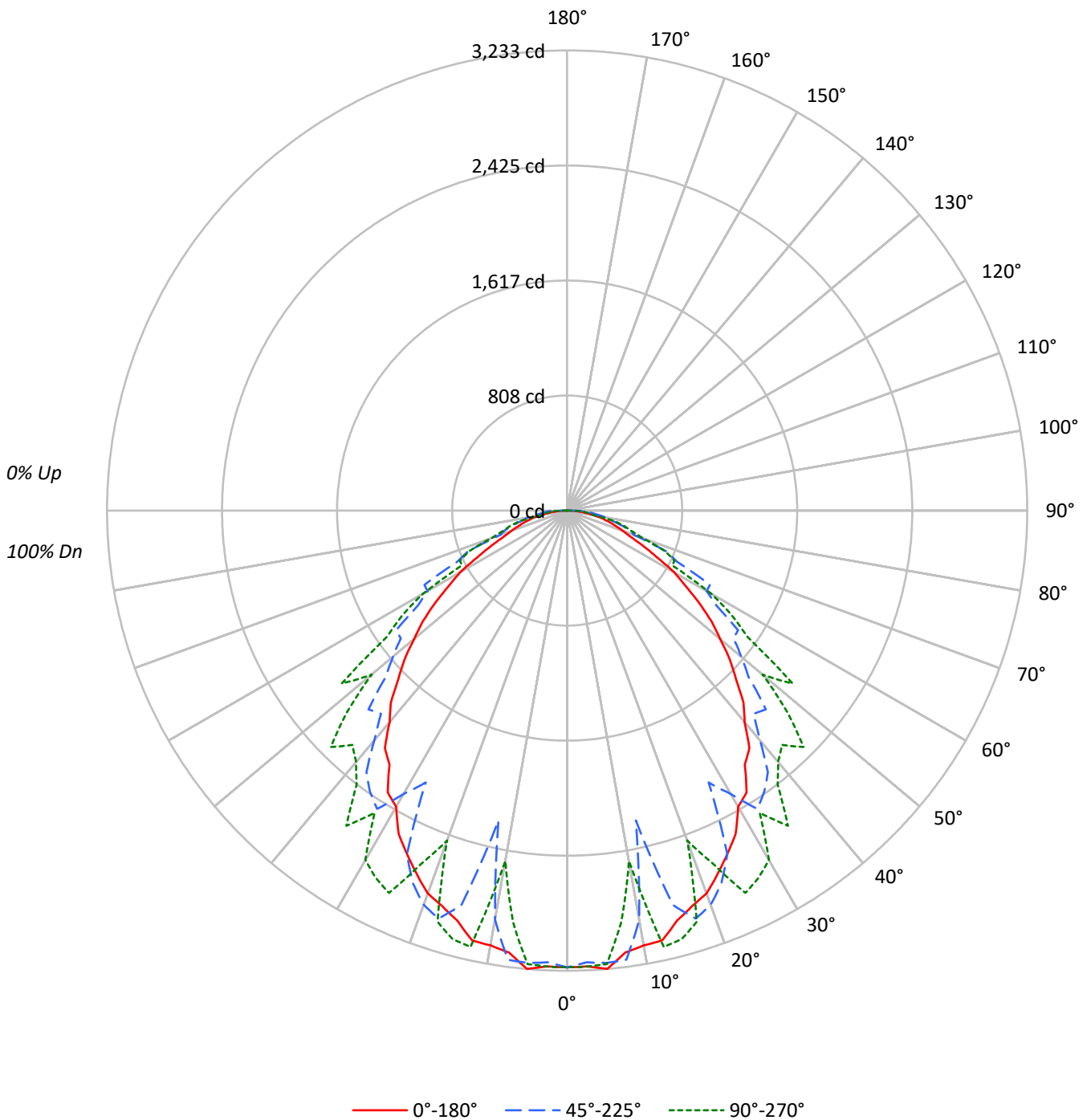
Lumens per Lamp: N/A
Luminaire Lumens: 7797.0 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 4ILED-LD5-9-W-TWBWG-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-9-W-TWBWG-UNV-L840-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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9420	9420	9420
5°	9505	9324	9334
10°	9206	8562	7315
15°	9004	8504	9200
20°	8860	8901	7414
25°	8521	8260	9136
30°	8029	7386	9039
35°	7669	8112	9002
40°	7281	7478	8094
45°	6798	7488	8794
50°	6224	6551	7247
55°	5589	6607	6832
60°	4881	5704	5776
65°	3896	4913	4686
70°	3327	3406	3723
75°	3124	3252	3310
80°	2819	3036	1962
85°	2478	2695	1865



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-9-W-TWBWG-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.6	3.8
10°-20°	821.1	10.5
20°-30°	1187.0	15.2
30°-40°	1486.7	19.1
40°-50°	1447.2	18.6
50°-60°	1238.7	15.9
60°-70°	768.4	9.9
70°-80°	399.9	5.1
80°-90°	155.3	2.0
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°	2300.8	29.5
0°-40°	3787.4	48.6
0°-60°	6473.4	83.0
0°-90°	7797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3209	3209	3209	3209	3209	
5°	3233	3223	3190	3178	3198	302
15°	2982	2994	2869	3132	3116	844
25°	2662	2206	2663	2737	2964	1223
35°	2178	2270	2414	2394	2704	1376
45°	1678	1507	1975	2020	2349	1298
55°	1131	1238	1466	1749	1543	1012
65°	591	663	851	720	832	600
75°	301	350	388	417	411	319
85°	95	126	167	192	124	101
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-9-W-TWBWG-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3209.0	3209.0	3209.0	3209.0	3209.0
2.5°	3205.2	3191.6	3176.6	3202.8	3207.7
5°	3232.6	3222.7	3190.3	3177.9	3197.8
7.5°	3131.8	3153.0	3182.9	3021.1	2916.6
10°	3102.0	3090.8	2920.3	2248.4	2501.0
12.5°	3092.0	3078.3	2229.7	3125.6	3140.5
15°	2982.5	2993.7	2869.3	3131.8	3115.7
17.5°	2915.3	2761.0	3004.9	3057.2	3028.6
20°	2861.8	2406.4	2947.7	2808.3	2467.4
22.5°	2763.5	2051.8	2833.2	2253.4	2691.4
25°	2661.5	2206.1	2662.7	2737.4	2963.9
27.5°	2563.2	2499.7	2153.8	2856.9	2910.4
30°	2402.7	2478.6	2298.2	2797.1	2834.5
32.5°	2346.7	2366.6	2484.8	2641.6	2517.2
35°	2177.5	2269.6	2413.9	2394.0	2703.8
37.5°	2102.8	2129.0	2316.8	2520.9	2428.8
40°	1939.8	1979.6	2106.6	2227.2	2305.6
42.5°	1834.1	1700.9	1936.1	2158.8	2233.5
45°	1678.5	1506.8	1974.7	2019.5	2349.2
47.5°	1551.6	1496.9	1728.3	2101.6	2101.6
50°	1403.5	1475.7	1596.4	1877.6	1793.0
52.5°	1276.6	1374.9	1473.2	1632.5	1997.1
55°	1131.0	1238.1	1465.8	1749.4	1542.9
57.5°	988.0	1078.8	1244.3	1340.1	1376.2
60°	867.3	955.6	1131.0	1204.5	1169.6
62.5°	711.7	823.7	1131.0	949.4	832.4
65°	591.0	663.2	851.1	720.4	832.4
67.5°	485.3	559.9	756.5	695.5	741.6
70°	414.3	467.8	500.2	622.1	563.7
72.5°	354.6	393.2	457.9	470.3	467.8
75°	301.1	349.6	388.2	416.8	410.6
77.5°	250.1	318.5	319.8	383.2	333.5
80°	190.4	217.7	276.2	250.1	187.9
82.5°	139.4	170.5	210.3	216.5	165.5
85°	94.6	125.7	166.7	191.6	124.4
87.5°	43.5	85.9	135.6	171.7	113.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)