

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-L850-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 (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-L850-CD1-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

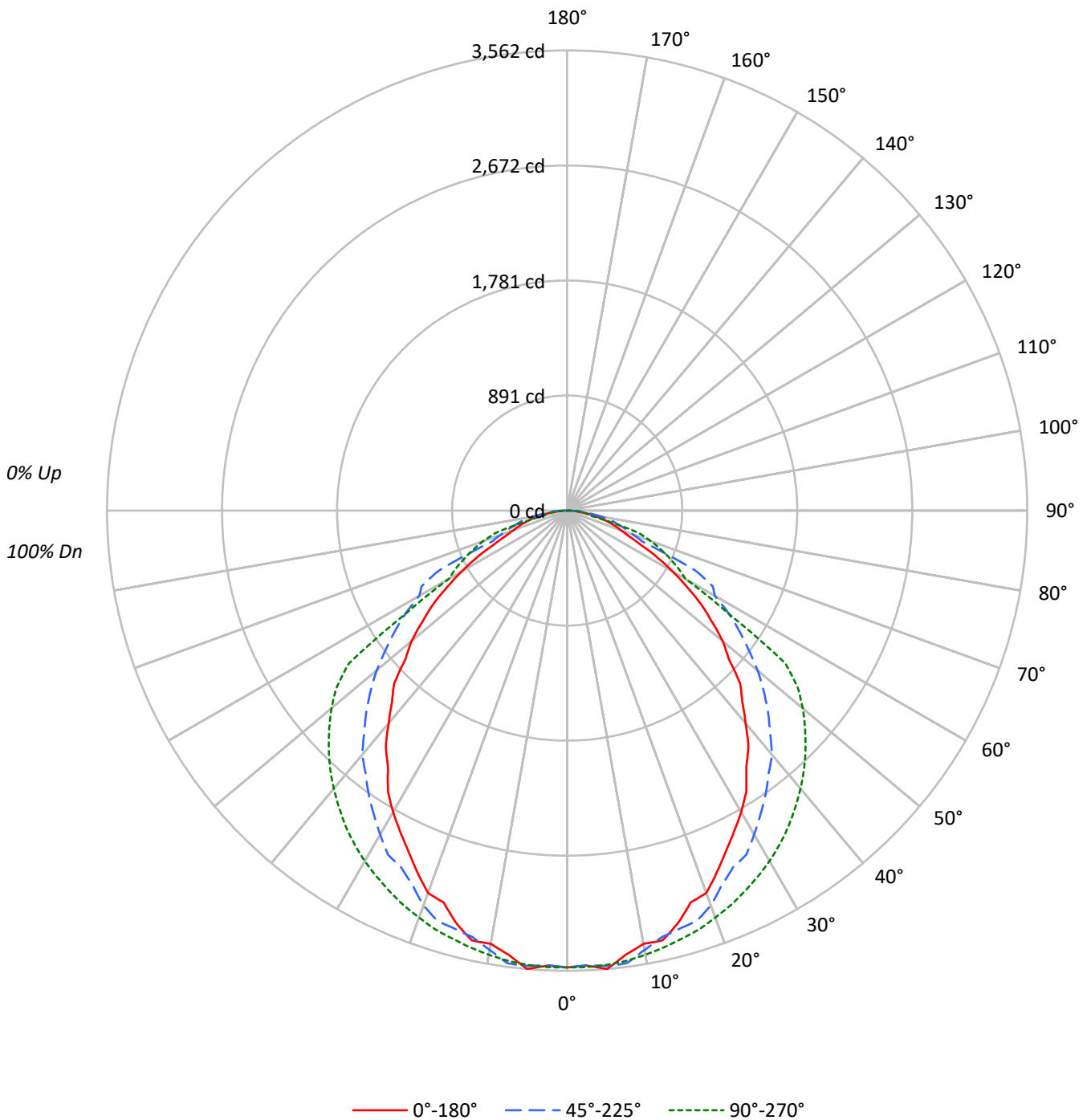
Lumens per Lamp: N/A
Luminaire Lumens: 8917.0 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 65.7
Input Voltage (V):
Input Current (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



TEST NUMBER: P#
CATALOG NUMBER: 4ILED-LD5-9-W-TWB-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-9-W-TWB-UNV-L850-CD1-U

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	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°	10380	10380	10380
5°	10472	10342	10305
10°	10107	10122	10211
15°	9988	9938	10131
20°	9751	9824	10074
25°	9313	9444	10023
30°	9004	9305	9992
35°	8514	9006	9944
40°	8068	8758	9867
45°	7671	8335	9769
50°	6972	7898	9623
55°	6259	7342	9137
60°	5302	6659	5225
65°	4162	6317	4940
70°	3535	3712	4542
75°	3337	3360	2864
80°	2989	2945	1687
85°	2256	2176	1433



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-9-W-TWB-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.0	3.8
10°-20°	951.0	10.7
20°-30°	1419.5	15.9
30°-40°	1689.7	18.9
40°-50°	1708.4	19.2
50°-60°	1439.4	16.1
60°-70°	831.7	9.3
70°-80°	410.6	4.6
80°-90°	131.7	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°	2705.5	30.3
0°-40°	4395.2	49.3
0°-60°	7543.0	84.6
0°-90°	8917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3536	3536	3536	3536	3536	
5°	3562	3570	3539	3521	3530	333
15°	3308	3360	3353	3443	3431	929
25°	2909	2962	3045	3193	3252	1343
35°	2417	2516	2680	2907	2987	1521
45°	1894	1952	2198	2462	2610	1437
55°	1267	1366	1629	1942	2063	1124
65°	631	770	1094	822	878	650
75°	322	396	401	442	355	338
85°	86	106	135	160	96	99
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-9-W-TWB-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3535.9	3535.9	3535.9	3535.9	3535.9
2.5°	3525.2	3529.2	3521.1	3541.3	3537.3
5°	3561.5	3569.6	3538.6	3521.1	3530.5
7.5°	3468.6	3486.1	3534.6	3511.7	3514.4
10°	3405.4	3408.1	3452.5	3523.8	3491.5
12.5°	3408.1	3402.7	3382.5	3505.0	3463.2
15°	3308.5	3359.6	3352.9	3443.0	3430.9
17.5°	3180.6	3230.4	3331.3	3381.1	3398.6
20°	3149.6	3132.1	3253.3	3301.7	3352.9
22.5°	3029.8	3099.8	3133.5	3241.2	3307.1
25°	2908.7	2962.5	3044.6	3192.7	3251.9
27.5°	2799.7	2857.5	3002.9	3146.9	3194.0
30°	2694.7	2748.5	2895.2	3089.1	3133.5
32.5°	2580.3	2647.6	2786.2	3019.1	3063.5
35°	2417.4	2515.7	2679.9	2907.3	2986.8
37.5°	2305.7	2370.3	2562.8	2788.9	2899.3
40°	2149.6	2253.2	2467.2	2697.4	2810.4
42.5°	2005.5	2107.8	2323.2	2583.0	2714.9
45°	1893.8	1951.7	2198.0	2461.8	2609.9
47.5°	1694.6	1841.3	2062.1	2332.6	2498.2
50°	1572.1	1673.1	1924.8	2208.8	2381.1
52.5°	1413.3	1526.4	1770.0	2071.5	2250.5
55°	1266.6	1366.2	1628.7	1942.3	2063.4
57.5°	1099.7	1227.5	1481.9	1795.6	1472.5
60°	942.2	1070.1	1320.4	1212.7	1058.0
62.5°	791.4	904.5	1270.6	912.6	970.5
65°	631.3	769.9	1094.3	822.4	877.6
67.5°	518.2	615.1	631.3	736.3	784.7
70°	440.1	487.2	545.1	652.8	687.8
72.5°	382.3	402.5	473.8	580.1	585.5
75°	321.7	395.7	401.1	441.5	355.3
77.5°	257.1	319.0	347.3	257.1	181.7
80°	201.9	216.7	267.9	226.1	161.5
82.5°	140.0	160.2	185.7	195.2	133.3
85°	86.1	106.3	134.6	160.2	95.6
87.5°	36.3	57.9	92.9	123.8	52.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)