

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: **8ILED-LD5-28-N-WG-UNV-L850-CD4-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: 8ILED-LD5-28-N-WG-UNV-L850-CD4-U  
Description: Metalux 8' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

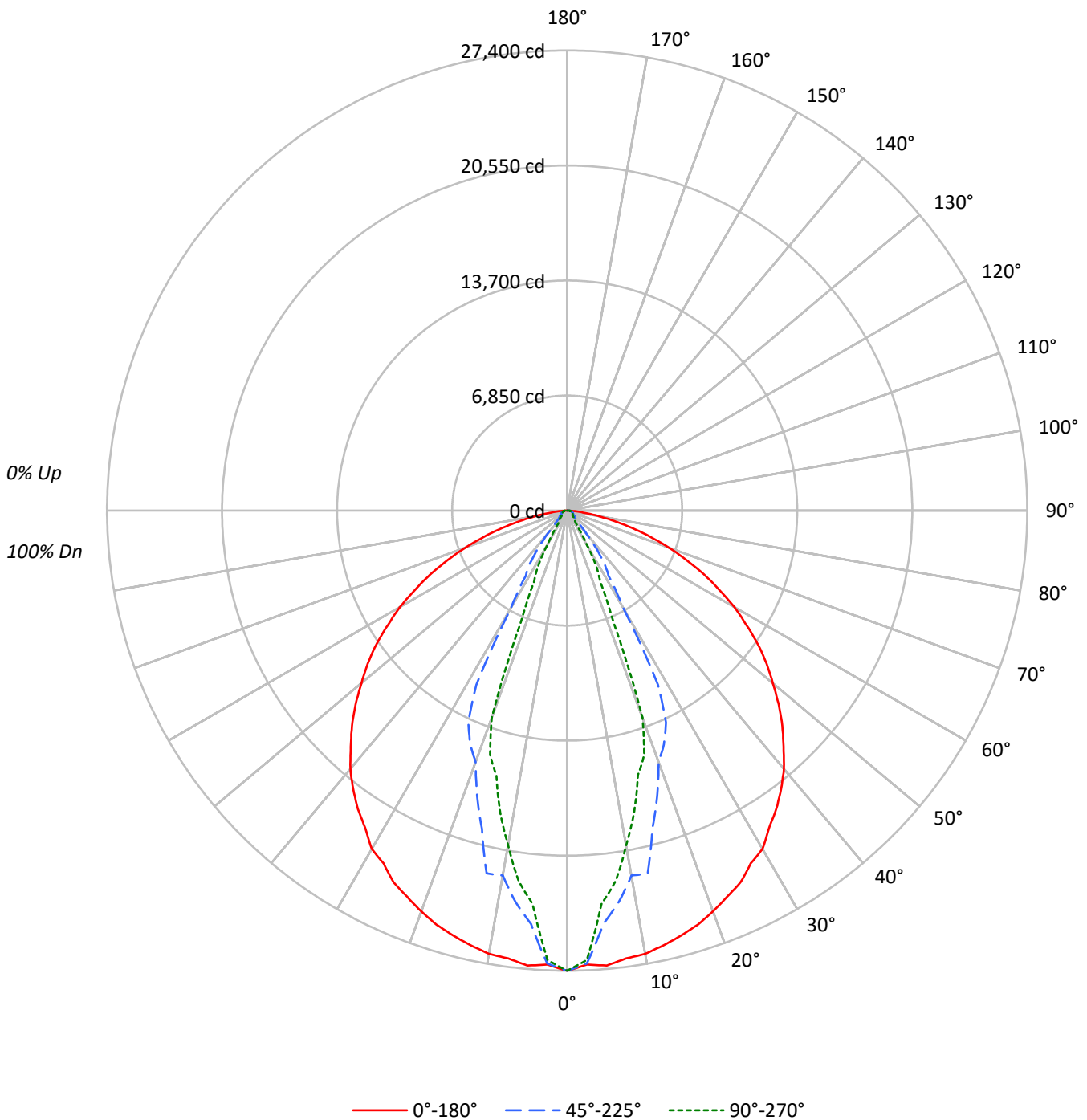
Lumens per Lamp: N/A  
Luminaire Lumens: 27203.0 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 204  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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: 8ILED-LD5-28-N-WG-UNV-L850-CD4-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-28-N-WG-UNV-L850-CD4-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	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°	40218	40218	40218
5°	40022	36140	34326
10°	39851	32397	29621
15°	39677	29138	24072
20°	39483	24121	19720
25°	39342	21686	7173
30°	39153	10808	3739
35°	38564	6543	1424
40°	38085	3274	1241
45°	37154	1420	918
50°	35975	1203	837
55°	34834	1005	877
60°	33073	1047	856
65°	30390	1135	874
70°	26707	1188	907
75°	21585	1314	998
80°	14852	1560	1105
85°	8358	1874	1384



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-28-N-WG-UNV-L850-CD4-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2340.4	8.6
10°-20°	5673.9	20.9
20°-30°	6180.9	22.7
30°-40°	4754.9	17.5
40°-50°	3513.2	12.9
50°-60°	2210.5	8.1
60°-70°	1447.4	5.3
70°-80°	810.4	3.0
80°-90°	271.4	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°	14195.3	52.2
0°-40°	18950.2	69.7
0°-60°	24673.8	90.7
0°-90°	27203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27203.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	27400	27400	27400	27400	27400	
5°	27193	26981	24712	23254	23520	###
15°	26198	22777	19617	17029	16304	7397
25°	24433	18258	13927	6203	4654	11233
35°	21710	13455	3871	1233	855	13577
45°	18122	7166	743	626	491	13956
55°	13855	1837	441	464	396	12343
65°	8985	455	387	347	311	8861
75°	3984	342	306	275	248	4274
85°	567	216	221	212	185	723
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-28-N-WG-UNV-L850-CD4-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	27399.8	27399.8	27399.8	27399.8	27399.8
2.5°	27062.2	27071.2	27003.7	26868.6	26783.1
5°	27192.7	26981.2	24712.5	23254.0	23519.6
7.5°	26895.6	25801.8	23519.6	22430.3	22218.7
10°	26796.6	23992.3	22065.7	21696.6	20256.1
12.5°	26513.0	22893.9	22133.2	19806.0	18424.1
15°	26197.9	22776.9	19616.9	17028.7	16303.9
17.5°	25855.8	21750.6	17825.4	15606.2	15259.6
20°	25392.2	21093.4	15925.8	14345.8	13126.0
22.5°	24892.5	20778.3	15066.1	9349.3	7247.2
25°	24433.4	18257.5	13927.2	6202.9	4654.4
27.5°	23677.2	18055.0	11699.0	4541.9	3839.7
30°	23267.5	16182.4	6693.5	3416.5	2345.2
32.5°	22380.8	14715.0	4582.4	2075.1	1399.9
35°	21710.1	13454.6	3871.2	1233.4	855.3
37.5°	20922.3	12621.8	2894.4	846.3	742.7
40°	20085.1	11640.5	1832.1	756.2	706.7
42.5°	19067.8	10483.7	1084.8	711.2	607.7
45°	18122.5	7166.2	742.7	625.7	490.6
47.5°	17078.2	4888.5	634.7	531.2	423.1
50°	15988.8	3196.0	580.7	472.6	414.1
52.5°	14967.0	2619.8	504.2	472.6	414.1
55°	13855.2	1836.6	441.1	463.6	396.1
57.5°	12635.3	1143.3	414.1	450.1	382.6
60°	11510.0	675.2	409.6	436.6	346.6
62.5°	10195.6	513.2	400.6	387.1	328.6
65°	8984.7	454.6	387.1	346.6	310.6
67.5°	7683.8	409.6	360.1	333.1	301.6
70°	6436.9	369.1	342.1	310.6	274.6
72.5°	5185.6	355.6	324.1	292.6	261.1
75°	3983.7	342.1	306.1	274.6	247.6
77.5°	2898.9	319.6	288.1	265.6	234.1
80°	1881.6	292.6	274.6	247.6	211.6
82.5°	1048.8	265.6	252.1	229.6	202.6
85°	567.2	216.1	220.6	211.6	184.6
87.5°	103.5	153.0	189.1	184.6	162.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)