

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-W-CL-UNV-L840-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 (P34177)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-28-W-CL-UNV-L840-CD4-U
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

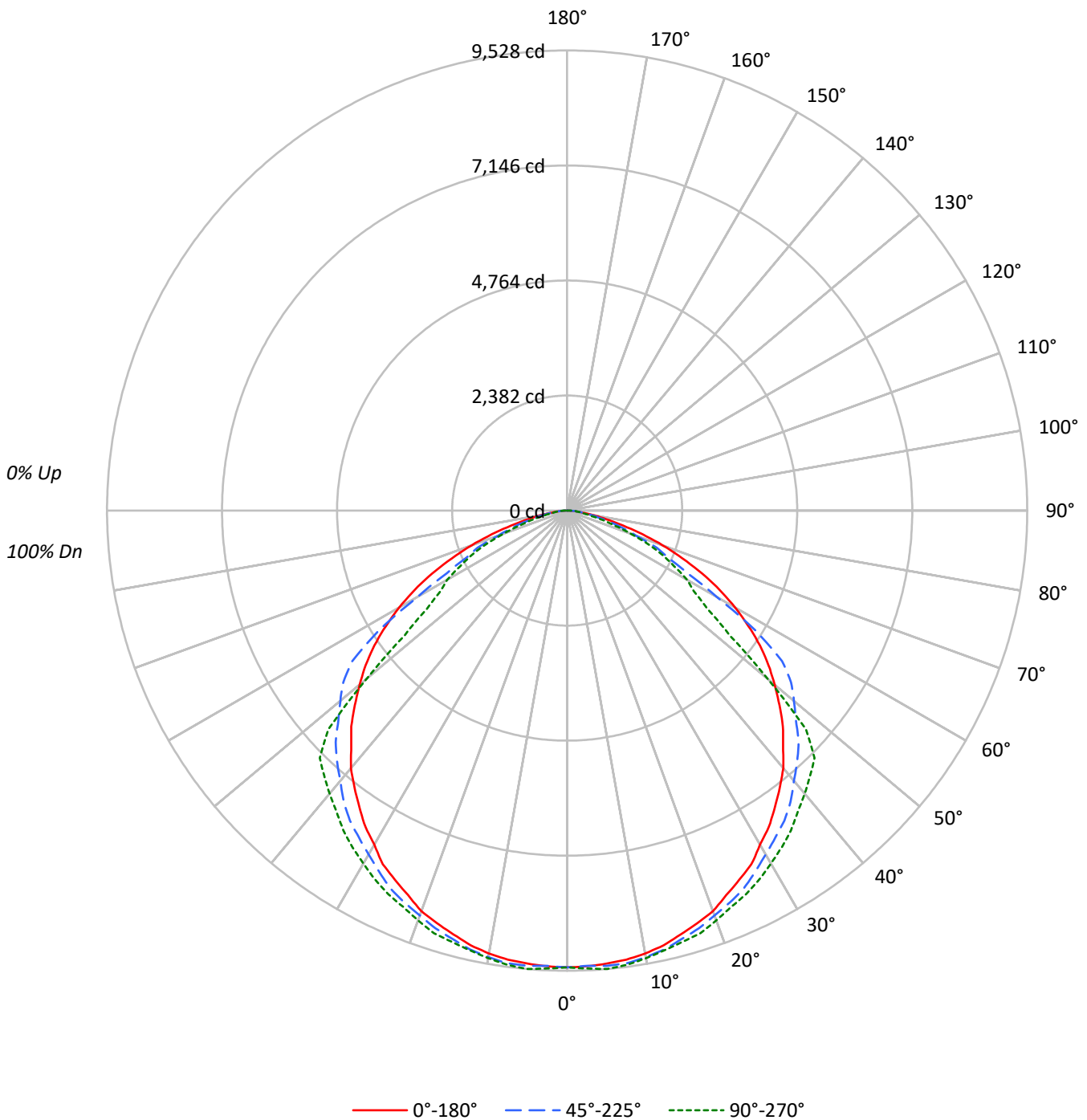
Lumens per Lamp: N/A
Luminaire Lumens: 25615.0 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 204
Input Voltage (V):
Input Current (A_{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: 8ILED-LD5-28-W-CL-UNV-L840-CD4-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-28-W-CL-UNV-L840-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64	62
4	84	73	64	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	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	40	35	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°	13883	13883	13883
5°	13859	13838	13906
10°	13849	13785	13758
15°	13759	13638	13647
20°	13725	13515	13562
25°	13580	13457	13503
30°	13441	13277	13454
35°	13320	13252	13451
40°	13203	13057	13433
45°	12957	12956	13558
50°	12617	12699	10966
55°	12248	12385	7845
60°	11542	9152	7084
65°	10434	6720	6157
70°	8757	5281	4629
75°	6490	3919	3089
80°	4225	2758	1931
85°	2213	1668	1444



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-28-W-CL-UNV-L840-CD4-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	901.3	3.5
10°-20°	2598.7	10.1
20°-30°	3978.5	15.5
30°-40°	4897.2	19.1
40°-50°	5190.4	20.3
50°-60°	4168.5	16.3
60°-70°	2590.8	10.1
70°-80°	1066.2	4.2
80°-90°	223.4	0.9
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°	7478.5	29.2
0°-40°	12375.7	48.3
0°-60°	21734.6	84.9
0°-90°	25615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9459	9459	9459	9459	9459	
5°	9416	9439	9462	9513	9528	896
15°	9085	9212	9181	9243	9243	2568
25°	8434	8523	8642	8738	8762	3891
35°	7498	7683	7841	8038	8080	4695
45°	6320	6458	6778	7102	7244	4862
55°	4872	5088	5434	3878	3543	4336
65°	3085	3304	2292	2176	2188	3040
75°	1198	1102	913	816	766	1313
85°	150	185	196	196	193	214
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-28-W-CL-UNV-L840-CD4-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9458.6	9458.6	9458.6	9458.6	9458.6
2.5°	9443.2	9454.8	9435.5	9477.9	9489.5
5°	9416.3	9439.4	9462.5	9512.6	9528.0
7.5°	9377.8	9427.8	9454.8	9485.6	9485.6
10°	9312.3	9389.3	9389.3	9400.9	9408.6
12.5°	9219.9	9323.9	9304.6	9312.3	9323.9
15°	9085.1	9212.2	9181.4	9243.0	9243.0
17.5°	8958.0	9065.8	9069.7	9146.7	9173.7
20°	8827.0	8915.6	8923.3	9035.0	9027.3
22.5°	8615.2	8750.0	8788.5	8850.1	8881.0
25°	8434.2	8522.8	8642.2	8738.5	8761.6
27.5°	8260.9	8334.1	8430.4	8596.0	8615.2
30°	7987.5	8141.5	8222.4	8441.9	8438.1
32.5°	7771.8	7910.4	8026.0	8237.8	8268.6
35°	7498.4	7683.2	7841.1	8037.5	8079.9
37.5°	7232.6	7402.1	7598.5	7791.1	7848.8
40°	6963.0	7117.1	7305.8	7536.9	7652.4
42.5°	6616.4	6805.1	7051.6	7317.4	7448.3
45°	6319.9	6458.5	6778.2	7101.7	7244.2
47.5°	5961.7	6142.7	6423.9	6836.0	6705.0
50°	5607.4	5815.4	6131.2	6192.8	5426.4
52.5°	5256.9	5464.9	5846.2	4898.8	4244.1
55°	4871.8	5087.5	5434.1	3878.2	3543.1
57.5°	4452.0	4656.1	4625.3	3219.6	3104.1
60°	4016.8	4217.1	3581.7	2819.1	2869.2
62.5°	3566.2	3781.9	2811.4	2576.5	2499.5
65°	3084.8	3304.4	2291.5	2176.0	2187.5
67.5°	2584.2	2769.0	2010.3	1856.3	1817.8
70°	2110.5	2164.4	1521.2	1478.9	1401.9
72.5°	1636.8	1567.5	1209.3	1116.9	1036.0
75°	1197.7	1101.5	912.7	816.5	766.4
77.5°	831.9	762.5	658.6	693.2	512.2
80°	535.3	496.8	485.3	385.1	369.7
82.5°	315.8	312.0	300.4	277.3	269.6
85°	150.2	184.9	196.4	196.4	192.6
87.5°	53.9	92.4	123.2	130.9	138.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)