

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-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 (P34185)  
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-UNV-L840-CD4-U  
Description: Metalux 8' ILED WITH OPEN NARROW DISTRIBUTION  
Light Source: (1) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

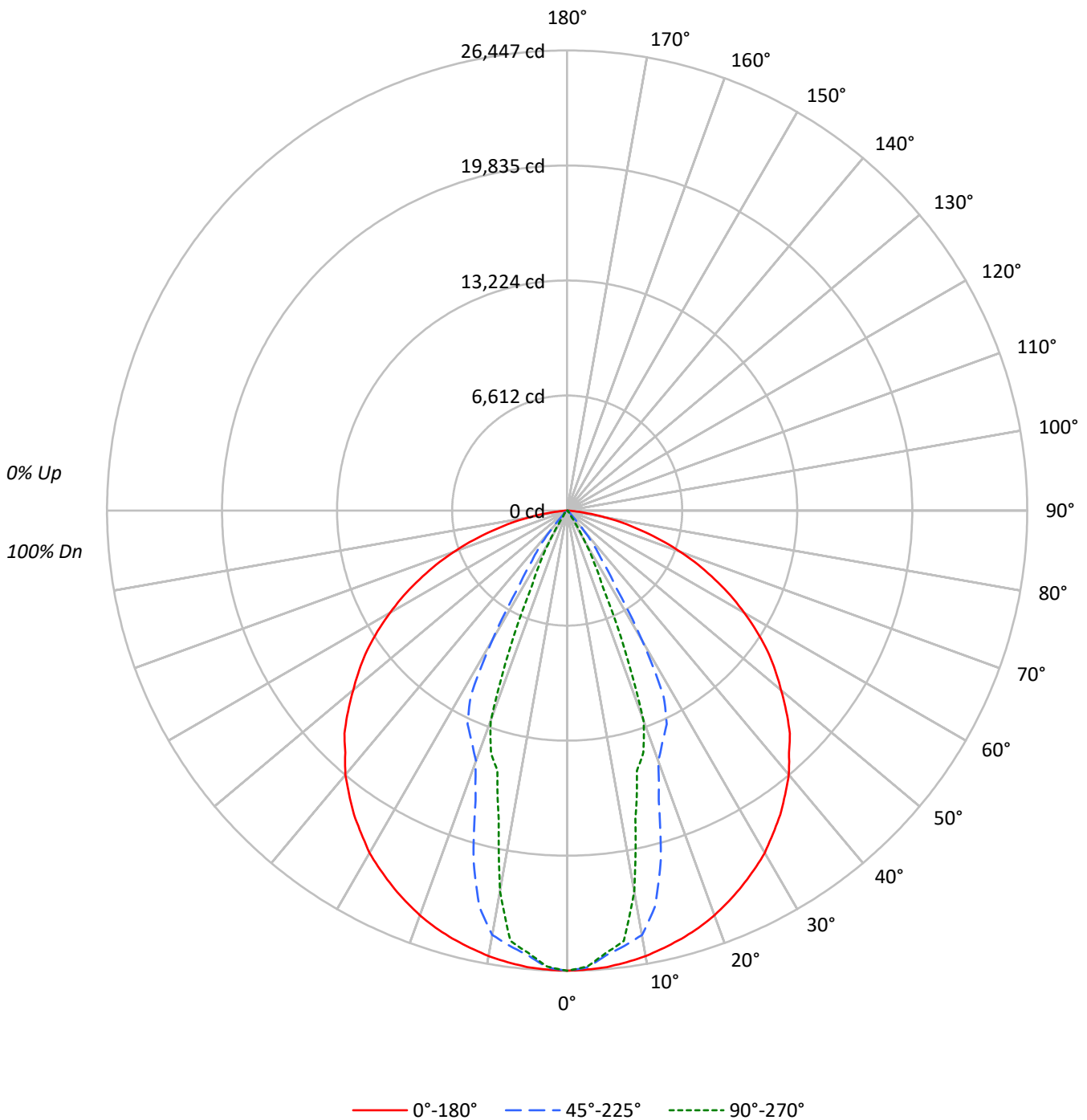
Lumens per Lamp: N/A  
Luminaire Lumens: 26600.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 204  
Input Voltage (V):  
Input Current (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



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### Luminous Intensity Polar Plot





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**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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	73	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	48					48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	38819	38819	38819
5°	38759	37520	37250
10°	38663	36361	32460
15°	38567	30876	22857
20°	38489	23196	19326
25°	38315	21093	7504
30°	38228	13970	3198
35°	37922	5950	707
40°	37594	2625	504
45°	37114	628	234
50°	36115	388	126
55°	35333	247	129
60°	33769	223	134
65°	31686	232	140
70°	28680	245	151
75°	23812	286	168
80°	17245	331	152
85°	5827	353	187



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2429.4	9.1
10°-20°	5798.4	21.8
20°-30°	6339.9	23.8
30°-40°	4588.1	17.2
40°-50°	3424.1	12.9
50°-60°	1999.4	7.5
60°-70°	1243.0	4.7
70°-80°	648.3	2.4
80°-90°	129.5	0.5
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°	14567.6	54.8
0°-40°	19155.7	72.0
0°-60°	24579.2	92.4
0°-90°	26600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26600.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26447	26447	26447	26447	26447	
5°	26334	26239	25656	25577	25523	###
15°	25465	24570	20787	16255	15481	7191
25°	23796	20200	13546	7062	4869	10977
35°	21349	13022	3521	762	424	13348
45°	18103	8510	329	225	125	13900
55°	14054	1648	108	125	58	12512
65°	9368	137	79	75	50	9262
75°	4395	83	67	54	42	4710
85°	395	54	42	38	25	749
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	26446.9	26446.9	26446.9	26446.9	26446.9
2.5°	26405.3	26438.5	26280.4	26280.4	26234.6
5°	26334.5	26238.8	25656.2	25577.1	25523.0
7.5°	26180.5	25806.0	25235.9	25131.8	24952.9
10°	25997.4	25339.9	24765.6	23284.1	22197.9
12.5°	25739.4	24952.9	23325.7	19655.2	18148.7
15°	25464.7	24570.0	20787.1	16255.2	15481.1
17.5°	25140.1	24062.3	17487.0	14906.8	14573.9
20°	24753.1	23238.3	15314.6	13978.8	12863.5
22.5°	24299.5	21960.7	14332.5	11619.1	8610.3
25°	23795.9	20200.3	13546.0	7062.2	4869.1
27.5°	23267.4	18119.5	11989.5	4290.6	3325.1
30°	22718.1	15980.5	8651.9	3075.4	2005.9
32.5°	22014.8	14232.6	5247.8	1731.2	894.7
35°	21348.9	13021.6	3520.7	761.6	424.5
37.5°	20579.0	12185.1	2571.9	403.7	299.6
40°	19825.8	11369.4	1469.0	303.8	287.1
42.5°	18876.9	10354.0	620.1	287.1	203.9
45°	18102.9	8510.4	328.8	224.7	124.8
47.5°	17079.1	5826.2	220.6	174.8	79.1
50°	16051.2	3599.8	187.3	137.3	62.4
52.5°	15073.3	2384.6	137.3	129.0	58.3
55°	14053.7	1648.0	108.2	124.8	58.3
57.5°	12921.7	811.5	91.6	120.7	54.1
60°	11752.3	316.3	87.4	116.5	54.1
62.5°	10595.4	174.8	83.2	95.7	49.9
65°	9367.7	137.3	79.1	74.9	49.9
67.5°	8152.5	112.4	74.9	70.7	49.9
70°	6912.4	99.9	70.7	62.4	45.8
72.5°	5647.3	91.6	66.6	62.4	41.6
75°	4394.6	83.2	66.6	54.1	41.6
77.5°	3287.7	79.1	62.4	54.1	33.3
80°	2184.8	70.7	58.3	45.8	29.1
82.5°	1206.9	66.6	49.9	41.6	29.1
85°	395.4	54.1	41.6	37.5	25.0
87.5°	62.4	37.5	33.3	33.3	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)