

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-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 (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-L840-CD4-U  
Description: Metalux 8' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

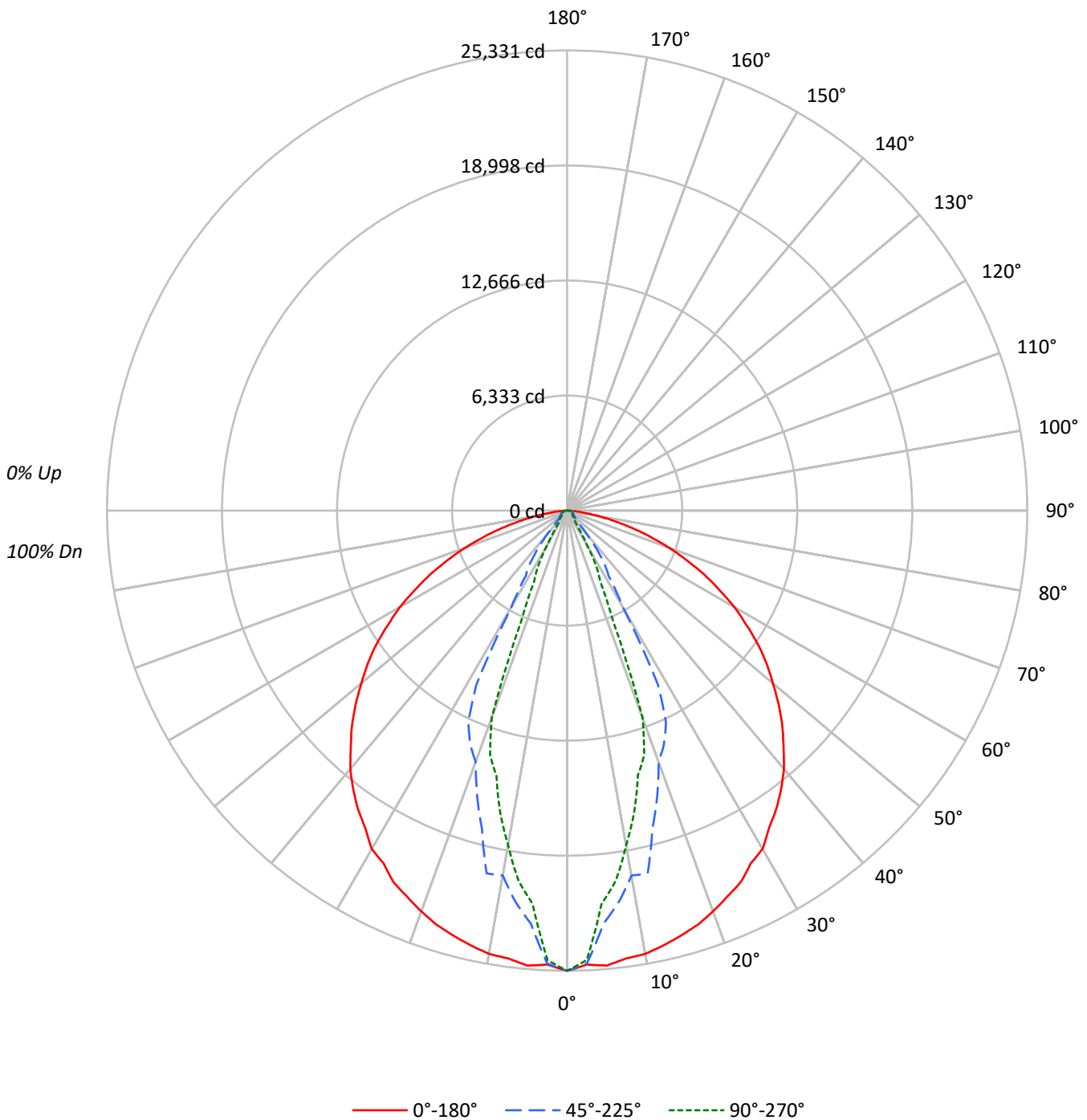
Lumens per Lamp: N/A  
Luminaire Lumens: 25149.0 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

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



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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	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°	37181	37181	37181
5°	37000	33411	31735
10°	36842	29951	27384
15°	36681	26938	22254
20°	36502	22300	18231
25°	36371	20049	6632
30°	36197	9992	3457
35°	35652	6049	1316
40°	35210	3027	1147
45°	34349	1312	849
50°	33258	1112	774
55°	32204	929	811
60°	30576	968	791
65°	28096	1050	808
70°	24691	1098	838
75°	19955	1215	923
80°	13730	1443	1021
85°	7726	1732	1279



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2163.7	8.6
10°-20°	5245.5	20.9
20°-30°	5714.2	22.7
30°-40°	4395.8	17.5
40°-50°	3247.9	12.9
50°-60°	2043.6	8.1
60°-70°	1338.1	5.3
70°-80°	749.2	3.0
80°-90°	250.8	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°	13123.5	52.2
0°-40°	17519.3	69.7
0°-60°	22810.8	90.7
0°-90°	25149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25149.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25331	25331	25331	25331	25331	
5°	25140	24944	22846	21498	21744	###
15°	24220	21057	18136	15743	15073	6839
25°	22588	16879	12876	5734	4303	10384
35°	20071	12439	3579	1140	791	12552
45°	16754	6625	687	578	454	12903
55°	12809	1698	408	429	366	11411
65°	8306	420	358	320	287	8192
75°	3683	316	283	254	229	3951
85°	524	200	204	196	171	668
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	25330.9	25330.9	25330.9	25330.9	25330.9
2.5°	25018.8	25027.1	24964.7	24839.9	24760.8
5°	25139.5	24943.9	22846.5	21498.2	21743.7
7.5°	24864.8	23853.6	21743.7	20736.7	20541.1
10°	24773.3	22180.7	20399.6	20058.3	18726.7
12.5°	24511.1	21165.3	20462.0	18310.5	17032.9
15°	24219.8	21057.1	18135.7	15742.9	15072.9
17.5°	23903.5	20108.3	16479.5	14427.9	14107.4
20°	23474.9	19500.7	14723.3	13262.6	12134.9
22.5°	23013.0	19209.4	13928.5	8643.4	6700.0
25°	22588.5	16879.0	12875.6	5734.5	4303.0
27.5°	21889.4	16691.7	10815.7	4198.9	3549.7
30°	21510.7	14960.5	6188.1	3158.6	2168.1
32.5°	20690.9	13603.9	4236.4	1918.4	1294.2
35°	20070.8	12438.7	3578.9	1140.2	790.7
37.5°	19342.6	11668.8	2675.8	782.4	686.6
40°	18568.5	10761.6	1693.7	699.1	653.4
42.5°	17628.0	9692.1	1002.9	657.5	561.8
45°	16754.1	6625.1	686.6	578.4	453.6
47.5°	15788.7	4519.4	586.8	491.1	391.2
50°	14781.6	2954.7	536.8	437.0	382.9
52.5°	13836.9	2422.0	466.1	437.0	382.9
55°	12809.0	1697.9	407.8	428.6	366.2
57.5°	11681.3	1057.0	382.9	416.1	353.7
60°	10640.9	624.2	378.7	403.7	320.4
62.5°	9425.8	474.4	370.4	357.9	303.8
65°	8306.3	420.3	357.9	320.4	287.1
67.5°	7103.6	378.7	332.9	307.9	278.8
70°	5950.9	341.2	316.3	287.1	253.9
72.5°	4794.0	328.8	299.6	270.5	241.4
75°	3682.9	316.3	283.0	253.9	228.9
77.5°	2680.0	295.5	266.3	245.5	216.4
80°	1739.5	270.5	253.9	228.9	195.6
82.5°	969.6	245.5	233.0	212.2	187.3
85°	524.3	199.8	203.9	195.6	170.6
87.5°	95.7	141.5	174.8	170.6	149.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)