

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-LD5-22-N-WG-UNV-L840-CD2-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-LD5-22-N-WG-UNV-L840-CD2-U  
Description: Metalux 8' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

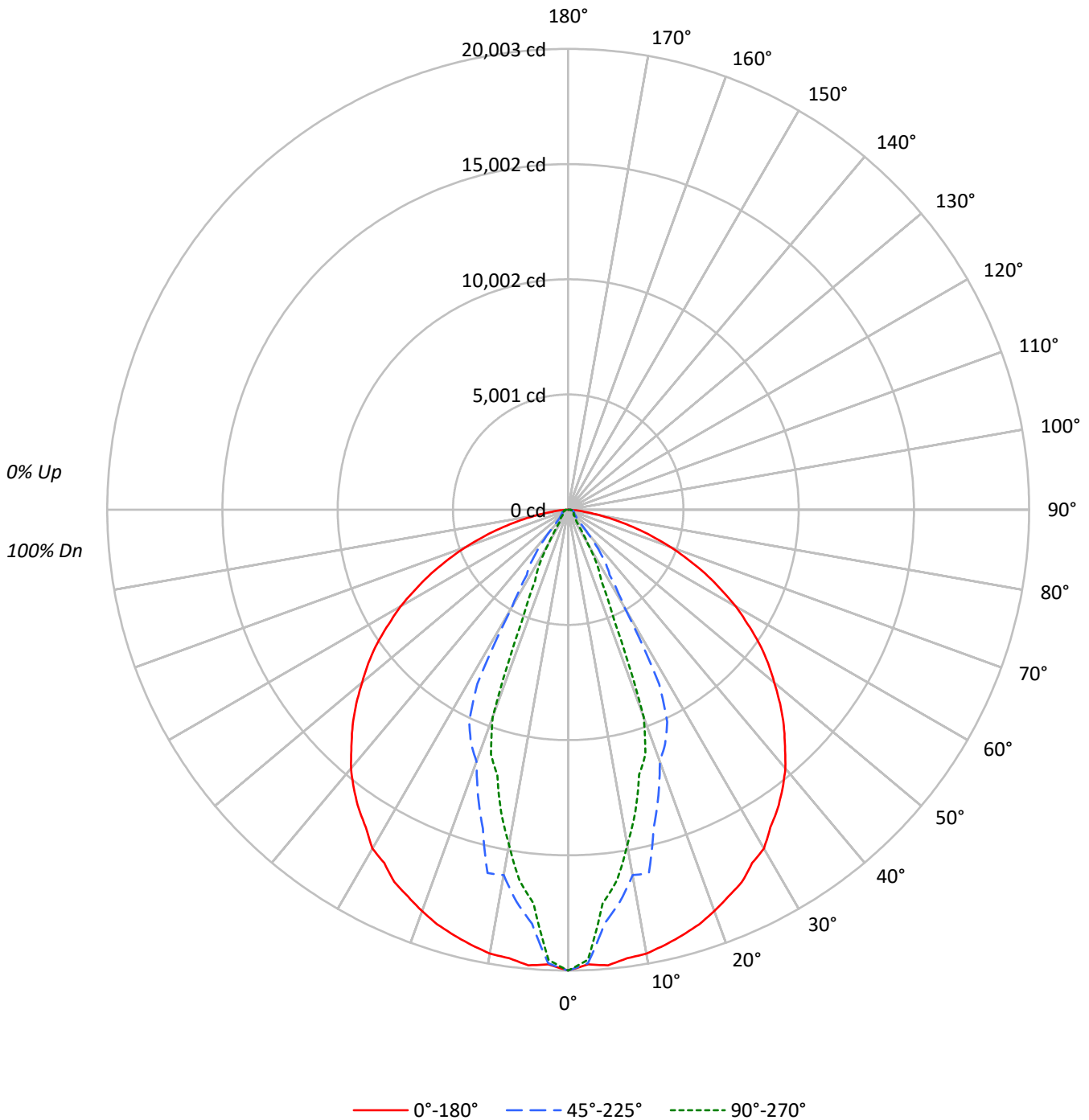
Lumens per Lamp: N/A  
Luminaire Lumens: 19859.0 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 167.7  
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°	29360	29360	29360
5°	29218	26383	25059
10°	29092	23651	21624
15°	28965	21272	17573
20°	28824	17609	14396
25°	28721	15832	5237
30°	28583	7890	2730
35°	28153	4776	1039
40°	27803	2390	906
45°	27124	1036	670
50°	26262	878	611
55°	25430	734	640
60°	24144	764	625
65°	22186	829	638
70°	19497	867	662
75°	15758	960	728
80°	10842	1139	806
85°	6102	1368	1010



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1708.6	8.6
10°-20°	4142.1	20.9
20°-30°	4512.3	22.7
30°-40°	3471.2	17.5
40°-50°	2564.8	12.9
50°-60°	1613.7	8.1
60°-70°	1056.7	5.3
70°-80°	591.6	3.0
80°-90°	198.1	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°	10363.0	52.2
0°-40°	13834.2	69.7
0°-60°	18012.6	90.7
0°-90°	19859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19859.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20003	20003	20003	20003	20003	
5°	19852	19697	18041	16976	17170	###
15°	19125	16628	14321	12431	11902	5400
25°	17837	13328	10167	4528	3398	8200
35°	15849	9822	2826	900	624	9912
45°	13230	5232	542	457	358	10189
55°	10115	1341	322	338	289	9011
65°	6559	332	283	253	227	6469
75°	2908	250	224	200	181	3120
85°	414	158	161	154	135	528
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	20002.7	20002.7	20002.7	20002.7	20002.7
2.5°	19756.2	19762.8	19713.5	19614.9	19552.5
5°	19851.5	19697.1	18040.8	16976.1	17170.0
7.5°	19634.6	18836.1	17170.0	16374.8	16220.3
10°	19562.3	17515.1	16108.6	15839.1	14787.6
12.5°	19355.3	16713.2	16157.9	14459.0	13450.1
15°	19125.3	16627.8	14320.9	12431.4	11902.4
17.5°	18875.5	15878.6	13013.1	11393.0	11140.0
20°	18537.0	15398.8	11626.3	10472.9	9582.3
22.5°	18172.3	15168.8	10998.7	6825.3	5290.7
25°	17837.1	13328.5	10167.3	4528.3	3397.9
27.5°	17285.0	13180.7	8540.6	3315.7	2803.1
30°	16986.0	11813.6	4886.5	2494.2	1712.1
32.5°	16338.6	10742.4	3345.3	1514.9	1022.0
35°	15849.0	9822.2	2826.1	900.4	624.4
37.5°	15273.9	9214.3	2113.0	617.8	542.2
40°	14662.7	8497.9	1337.5	552.1	515.9
42.5°	13920.0	7653.4	792.0	519.2	443.6
45°	13230.0	5231.5	542.2	456.8	358.2
47.5°	12467.6	3568.7	463.3	387.8	308.9
50°	11672.3	2333.2	423.9	345.0	302.3
52.5°	10926.4	1912.5	368.0	345.0	302.3
55°	10114.7	1340.7	322.0	338.5	289.2
57.5°	9224.2	834.7	302.3	328.6	279.3
60°	8402.6	492.9	299.0	318.8	253.0
62.5°	7443.1	374.6	292.5	282.6	239.9
65°	6559.1	331.9	282.6	253.0	226.7
67.5°	5609.4	299.0	262.9	243.2	220.2
70°	4699.2	269.5	249.7	226.7	200.5
72.5°	3785.6	259.6	236.6	213.6	190.6
75°	2908.2	249.7	223.5	200.5	180.7
77.5°	2116.3	233.3	210.3	193.9	170.9
80°	1373.6	213.6	200.5	180.7	154.4
82.5°	765.7	193.9	184.0	167.6	147.9
85°	414.1	157.7	161.0	154.4	134.7
87.5°	75.6	111.7	138.0	134.7	118.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)