

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-TWB-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-TWB-UNV-L840-CD4-U
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

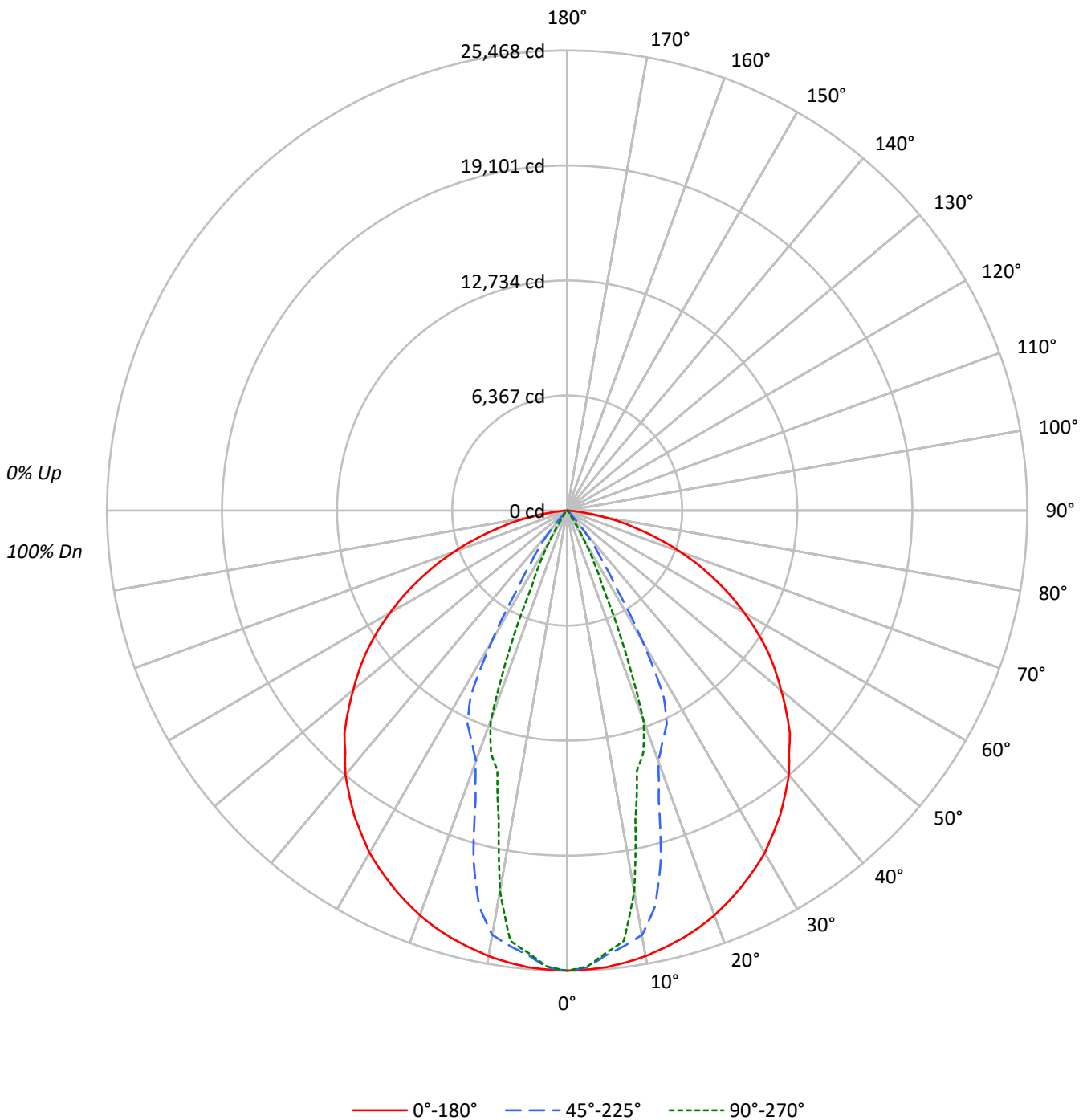
Lumens per Lamp: N/A
Luminaire Lumens: 25615.0 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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



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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°	37381	37381	37381
5°	37324	36131	35871
10°	37231	35014	31258
15°	37139	29733	22010
20°	37064	22337	18610
25°	36896	20312	7226
30°	36813	13453	3080
35°	36518	5730	681
40°	36201	2528	485
45°	35739	605	225
50°	34778	373	121
55°	34025	237	124
60°	32519	215	129
65°	30512	223	135
70°	27618	236	146
75°	22930	275	162
80°	16607	319	147
85°	5610	341	180



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2339.4	9.1
10°-20°	5583.6	21.8
20°-30°	6105.1	23.8
30°-40°	4418.2	17.2
40°-50°	3297.3	12.9
50°-60°	1925.4	7.5
60°-70°	1196.9	4.7
70°-80°	624.3	2.4
80°-90°	124.8	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°	14028.2	54.8
0°-40°	18446.4	72.0
0°-60°	23669.1	92.4
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°	25468	25468	25468	25468	25468	
5°	25359	25267	24706	24630	24578	###
15°	24522	23660	20017	15653	14908	6925
25°	22915	19452	13044	6801	4689	10570
35°	20558	12539	3390	733	409	12853
45°	17432	8195	317	216	120	13386
55°	13533	1587	104	120	56	12049
65°	9021	132	76	72	48	8919
75°	4232	80	64	52	40	4536
85°	381	52	40	36	24	721
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25467.5	25467.5	25467.5	25467.5	25467.5
2.5°	25427.5	25459.5	25307.2	25307.2	25263.2
5°	25359.3	25267.2	24706.1	24630.0	24577.9
7.5°	25211.1	24850.4	24301.4	24201.2	24028.9
10°	25034.7	24401.6	23848.5	22421.9	21375.9
12.5°	24786.3	24028.9	22461.9	18927.3	17476.6
15°	24521.8	23660.2	20017.4	15653.2	14907.8
17.5°	24209.2	23171.3	16839.4	14354.8	14034.2
20°	23836.5	22377.8	14747.5	13461.1	12387.1
22.5°	23399.7	21147.5	13801.8	11188.9	8291.5
25°	22914.8	19452.3	13044.4	6800.7	4688.8
27.5°	22405.8	17448.6	11545.6	4131.7	3202.0
30°	21876.8	15388.7	8331.6	2961.5	1931.6
32.5°	21199.6	13705.6	5053.4	1667.1	861.6
35°	20558.4	12539.4	3390.3	733.4	408.8
37.5°	19817.0	11733.9	2476.6	388.7	288.5
40°	19091.6	10948.4	1414.6	292.5	276.5
42.5°	18177.9	9970.6	597.1	276.5	196.4
45°	17432.5	8195.3	316.6	216.4	120.2
47.5°	16446.7	5610.5	212.4	168.3	76.1
50°	15456.9	3466.5	180.3	132.2	60.1
52.5°	14515.1	2296.3	132.2	124.2	56.1
55°	13533.3	1587.0	104.2	120.2	56.1
57.5°	12443.2	781.5	88.2	116.2	52.1
60°	11317.1	304.6	84.2	112.2	52.1
62.5°	10203.0	168.3	80.1	92.2	48.1
65°	9020.8	132.2	76.1	72.1	48.1
67.5°	7850.7	108.2	72.1	68.1	48.1
70°	6656.4	96.2	68.1	60.1	44.1
72.5°	5438.2	88.2	64.1	60.1	40.1
75°	4231.9	80.1	64.1	52.1	40.1
77.5°	3165.9	76.1	60.1	52.1	32.1
80°	2103.9	68.1	56.1	44.1	28.1
82.5°	1162.2	64.1	48.1	40.1	28.1
85°	380.7	52.1	40.1	36.1	24.0
87.5°	60.1	36.1	32.1	32.1	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)