

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-LD5-18-N-UNV-L835-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 (P34185)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-18-N-UNV-L835-CD2-U
Description: Metalux 8' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

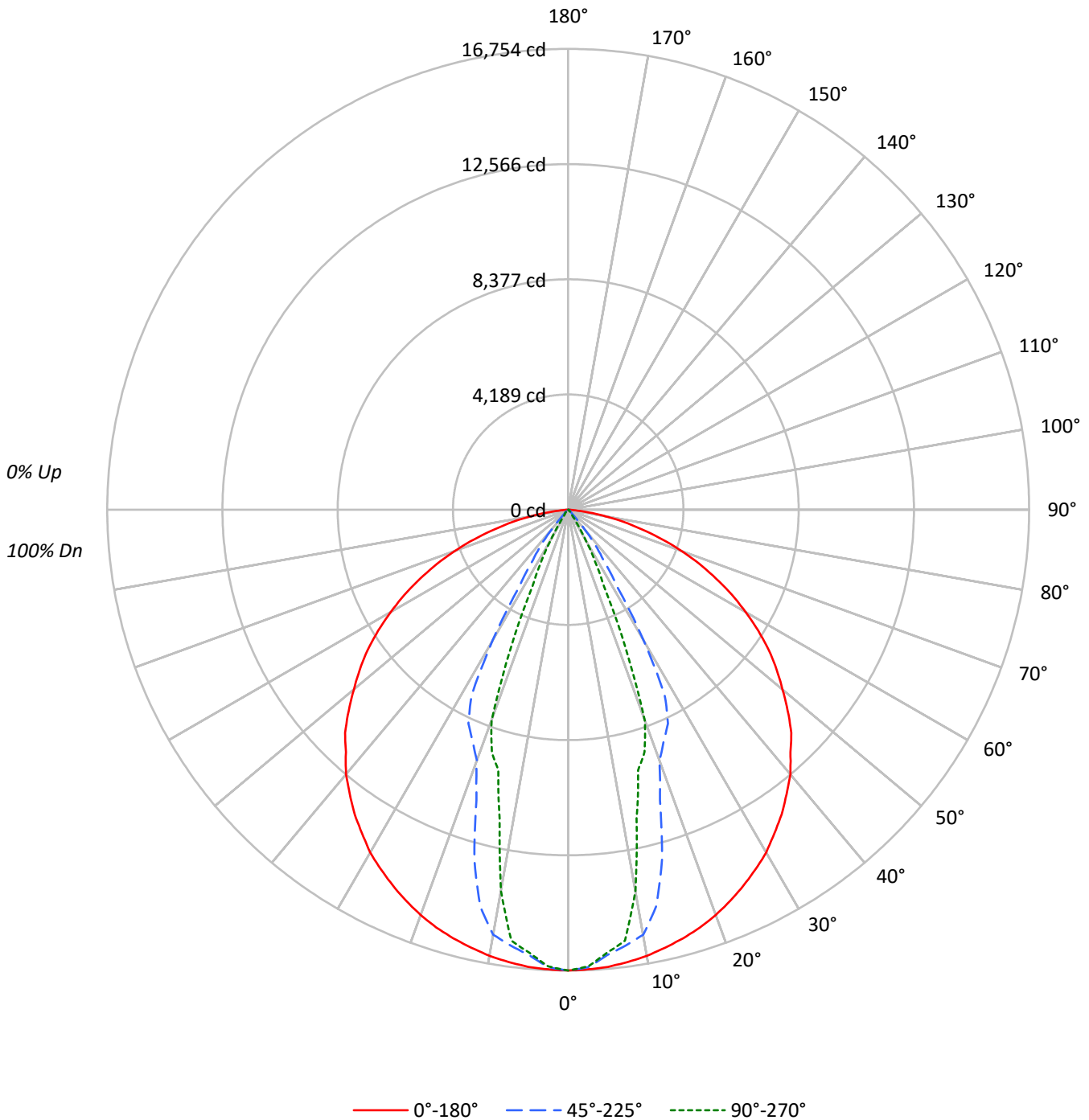
Lumens per Lamp: N/A
Luminaire Lumens: 16851.0 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 131.3
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°	24592	24592	24592
5°	24554	23769	23598
10°	24493	23034	20564
15°	24432	19560	14480
20°	24383	14694	12243
25°	24273	13362	4754
30°	24218	8850	2026
35°	24024	3770	448
40°	23815	1663	319
45°	23511	398	148
50°	22879	246	80
55°	22383	156	82
60°	21392	142	85
65°	20073	147	89
70°	18169	156	96
75°	15085	181	106
80°	10925	210	97
85°	3691	224	118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1539.0	9.1
10°-20°	3673.2	21.8
20°-30°	4016.3	23.8
30°-40°	2906.6	17.2
40°-50°	2169.1	12.9
50°-60°	1266.6	7.5
60°-70°	787.4	4.7
70°-80°	410.7	2.4
80°-90°	82.1	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°	9228.5	54.8
0°-40°	12135.1	72.0
0°-60°	15570.8	92.4
0°-90°	16851.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16851.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16754	16754	16754	16754	16754	
5°	16683	16622	16253	16203	16169	###
15°	16132	15565	13169	10298	9807	4555
25°	15075	12797	8581	4474	3084	6954
35°	13524	8249	2230	482	269	8456
45°	11468	5391	208	142	79	8806
55°	8903	1044	68	79	37	7927
65°	5934	87	50	48	32	5868
75°	2784	53	42	34	26	2984
85°	250	34	26	24	16	474
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16754.0	16754.0	16754.0	16754.0	16754.0
2.5°	16727.6	16748.7	16648.5	16648.5	16619.5
5°	16682.8	16622.2	16253.1	16203.0	16168.7
7.5°	16585.3	16348.0	15986.8	15920.9	15807.5
10°	16469.3	16052.7	15688.9	14750.4	14062.3
12.5°	16305.8	15807.5	14776.7	12451.5	11497.1
15°	16131.8	15565.0	13168.6	10297.6	9807.2
17.5°	15926.2	15243.4	11077.9	9443.4	9232.5
20°	15681.0	14721.4	9701.8	8855.5	8149.0
22.5°	15393.6	13912.0	9079.6	7360.7	5454.6
25°	15074.6	12796.8	8581.3	4473.9	3084.5
27.5°	14739.8	11478.7	7595.3	2718.1	2106.4
30°	14391.8	10123.6	5481.0	1948.3	1270.7
32.5°	13946.3	9016.3	3324.4	1096.7	566.8
35°	13524.5	8249.1	2230.4	482.5	268.9
37.5°	13036.7	7719.2	1629.3	255.7	189.8
40°	12559.6	7202.5	930.6	192.5	181.9
42.5°	11958.5	6559.2	392.8	181.9	129.2
45°	11468.1	5391.3	208.3	142.4	79.1
47.5°	10819.6	3690.9	139.7	110.7	50.1
50°	10168.4	2280.4	118.6	87.0	39.5
52.5°	9548.9	1510.6	87.0	81.7	36.9
55°	8902.9	1044.0	68.5	79.1	36.9
57.5°	8185.9	514.1	58.0	76.5	34.3
60°	7445.0	200.4	55.4	73.8	34.3
62.5°	6712.1	110.7	52.7	60.6	31.6
65°	5934.4	87.0	50.1	47.5	31.6
67.5°	5164.6	71.2	47.5	44.8	31.6
70°	4379.0	63.3	44.8	39.5	29.0
72.5°	3577.5	58.0	42.2	39.5	26.4
75°	2784.0	52.7	42.2	34.3	26.4
77.5°	2082.7	50.1	39.5	34.3	21.1
80°	1384.1	44.8	36.9	29.0	18.5
82.5°	764.5	42.2	31.6	26.4	18.5
85°	250.5	34.3	26.4	23.7	15.8
87.5°	39.5	23.7	21.1	21.1	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)