

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-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 (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-L840-CD2-U
Description: Metalux 8' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

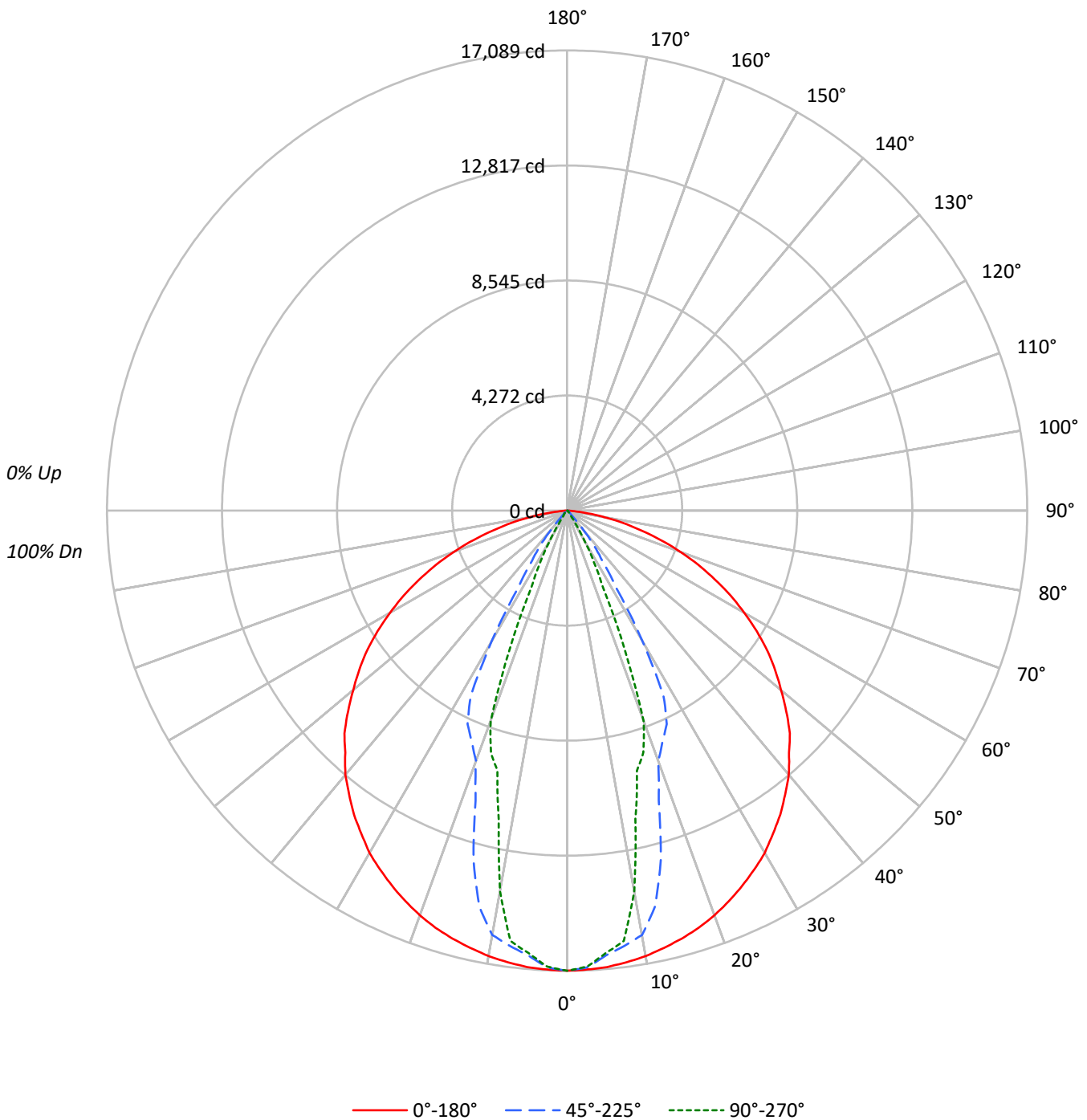
Lumens per Lamp: N/A
Luminaire Lumens: 17188.0 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 131.3
Input Voltage (V):
Input Current (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°	25083	25083	25083
5°	25045	24244	24070
10°	24982	23495	20975
15°	24920	19951	14769
20°	24871	14988	12487
25°	24758	13629	4849
30°	24702	9027	2067
35°	24504	3845	457
40°	24292	1696	326
45°	23982	406	151
50°	23336	251	81
55°	22831	159	83
60°	21820	144	86
65°	20474	150	91
70°	18532	159	98
75°	15387	185	108
80°	11144	214	98
85°	3765	228	121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1569.8	9.1
10°-20°	3746.7	21.8
20°-30°	4096.6	23.8
30°-40°	2964.7	17.2
40°-50°	2212.5	12.9
50°-60°	1291.9	7.5
60°-70°	803.2	4.7
70°-80°	418.9	2.4
80°-90°	83.7	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°	9413.1	54.8
0°-40°	12377.8	72.0
0°-60°	15882.2	92.4
0°-90°	17188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17188.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17089	17089	17089	17089	17089	
5°	17016	16955	16578	16527	16492	###
15°	16454	15876	13432	10504	10003	4646
25°	15376	13053	8753	4563	3146	7093
35°	13795	8414	2275	492	274	8625
45°	11698	5499	212	145	81	8982
55°	9081	1065	70	81	38	8085
65°	6053	89	51	48	32	5985
75°	2840	54	43	35	27	3044
85°	256	35	27	24	16	484
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17089.1	17089.1	17089.1	17089.1	17089.1
2.5°	17062.2	17083.7	16981.5	16981.5	16951.9
5°	17016.4	16954.6	16578.1	16527.0	16492.1
7.5°	16917.0	16674.9	16306.5	16239.3	16123.7
10°	16798.6	16373.8	16002.7	15045.4	14343.5
12.5°	16631.9	16123.7	15072.2	12700.5	11727.0
15°	16454.4	15876.3	13431.9	10503.5	10003.3
17.5°	16244.7	15548.2	11299.5	9632.3	9417.1
20°	15994.6	15015.8	9895.8	9032.6	8311.9
22.5°	15701.5	14190.2	9261.2	7507.9	5563.7
25°	15376.1	13052.8	8752.9	4563.4	3146.2
27.5°	15034.6	11708.2	7747.2	2772.4	2148.6
30°	14679.6	10326.0	5590.6	1987.2	1296.1
32.5°	14225.2	9196.6	3390.9	1118.7	578.2
35°	13794.9	8414.1	2275.0	492.1	274.3
37.5°	13297.5	7873.6	1661.8	260.8	193.6
40°	12810.7	7346.5	949.2	196.3	185.5
42.5°	12197.6	6690.4	400.7	185.5	131.8
45°	11697.5	5499.2	212.4	145.2	80.7
47.5°	11036.0	3764.7	142.5	112.9	51.1
50°	10371.8	2326.0	121.0	88.7	40.3
52.5°	9739.8	1540.8	88.7	83.4	37.6
55°	9081.0	1064.9	69.9	80.7	37.6
57.5°	8349.6	524.4	59.2	78.0	35.0
60°	7593.9	204.4	56.5	75.3	35.0
62.5°	6846.4	112.9	53.8	61.8	32.3
65°	6053.1	88.7	51.1	48.4	32.3
67.5°	5267.9	72.6	48.4	45.7	32.3
70°	4466.5	64.5	45.7	40.3	29.6
72.5°	3649.1	59.2	43.0	40.3	26.9
75°	2839.7	53.8	43.0	35.0	26.9
77.5°	2124.4	51.1	40.3	35.0	21.5
80°	1411.8	45.7	37.6	29.6	18.8
82.5°	779.8	43.0	32.3	26.9	18.8
85°	255.5	35.0	26.9	24.2	16.1
87.5°	40.3	24.2	21.5	21.5	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)