

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-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-LD5-22-N-UNV-L835-CD2-U
Description: Metalux 8' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

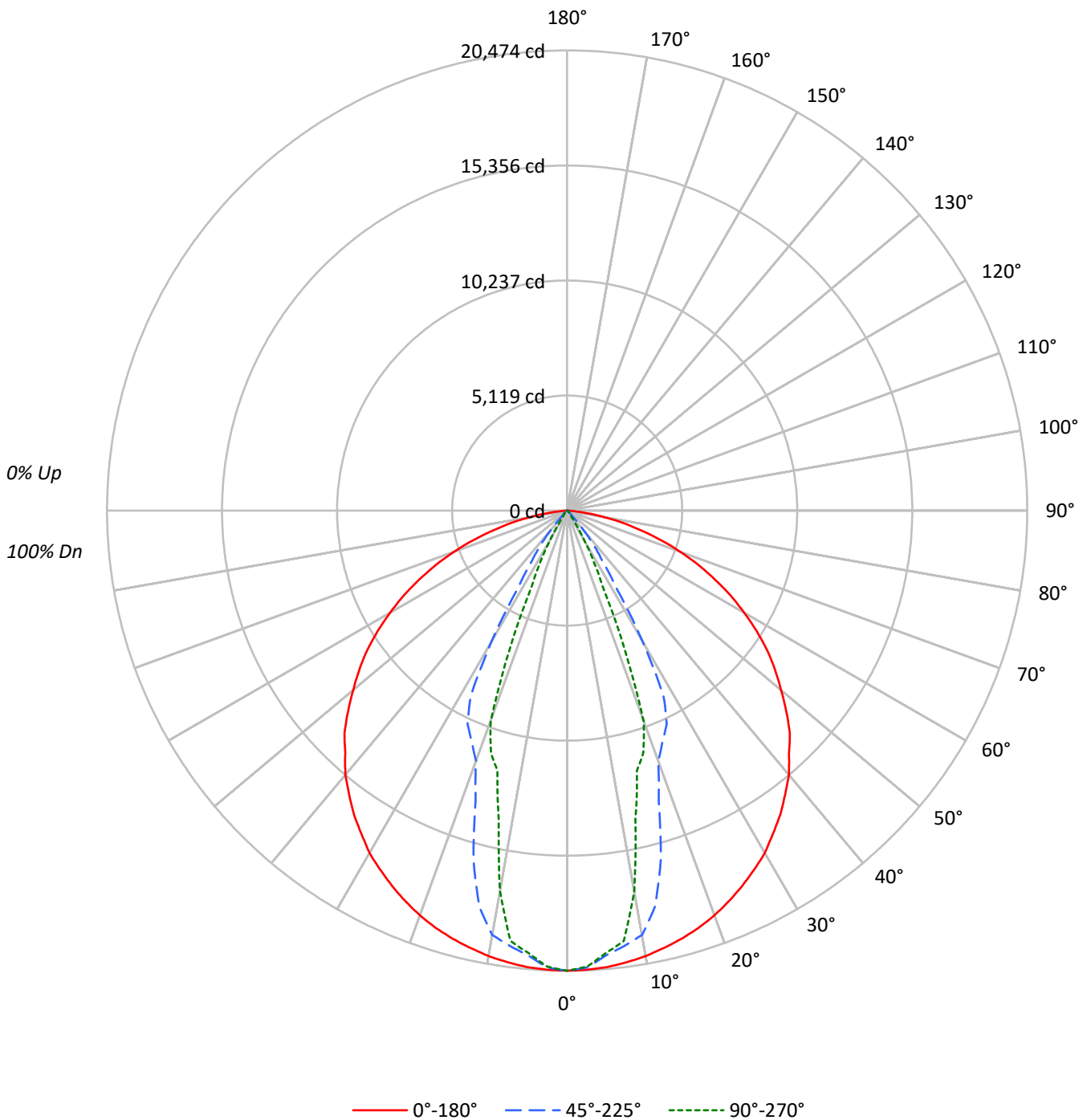
Lumens per Lamp: N/A
Luminaire Lumens: 20593.0 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 167.7
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°	30053	30053	30053
5°	30006	29047	28838
10°	29932	28149	25130
15°	29857	23904	17695
20°	29797	17958	14961
25°	29663	16329	5809
30°	29595	10816	2476
35°	29359	4607	547
40°	29104	2033	390
45°	28733	486	181
50°	27959	300	98
55°	27354	191	100
60°	26143	173	103
65°	24530	179	109
70°	22203	190	117
75°	18434	221	130
80°	13351	256	118
85°	4511	274	145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1880.8	9.1
10°-20°	4488.9	21.8
20°-30°	4908.2	23.8
30°-40°	3552.0	17.2
40°-50°	2650.8	12.9
50°-60°	1547.9	7.5
60°-70°	962.3	4.7
70°-80°	501.9	2.4
80°-90°	100.3	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°	11277.8	54.8
0°-40°	14829.9	72.0
0°-60°	19028.6	92.4
0°-90°	20593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20593.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20474	20474	20474	20474	20474	
5°	20388	20313	19862	19801	19759	###
15°	19714	19021	16093	12584	11985	5567
25°	18422	15639	10487	5467	3770	8498
35°	16528	10081	2726	590	329	10333
45°	14015	6589	254	174	97	10761
55°	10880	1276	84	97	45	9687
65°	7252	106	61	58	39	7171
75°	3402	64	52	42	32	3646
85°	306	42	32	29	19	580
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20474.5	20474.5	20474.5	20474.5	20474.5
2.5°	20442.2	20468.0	20345.6	20345.6	20310.1
5°	20387.5	20313.4	19862.3	19801.1	19759.2
7.5°	20268.3	19978.3	19536.9	19456.4	19317.8
10°	20126.5	19617.5	19172.9	18025.9	17185.0
12.5°	19926.7	19317.8	18058.1	15216.5	14050.2
15°	19714.1	19021.4	16092.8	12584.3	11985.0
17.5°	19462.8	18628.4	13537.9	11540.4	11282.7
20°	19163.2	17990.5	11856.2	10822.0	9958.5
22.5°	18812.0	17001.4	11095.8	8995.2	6665.9
25°	18422.2	15638.6	10486.9	5467.4	3769.5
27.5°	18013.0	14027.7	9282.0	3321.7	2574.2
30°	17587.7	12371.7	6698.1	2380.9	1552.9
32.5°	17043.2	11018.5	4062.7	1340.3	692.7
35°	16527.8	10081.0	2725.6	589.6	328.6
37.5°	15931.7	9433.4	1991.1	312.5	232.0
40°	15348.6	8801.9	1137.3	235.2	222.3
42.5°	14614.0	8015.8	480.0	222.3	157.9
45°	14014.8	6588.6	254.5	174.0	96.7
47.5°	13222.2	4510.5	170.8	135.3	61.2
50°	12426.4	2786.8	145.0	106.3	48.3
52.5°	11669.3	1846.1	106.3	99.9	45.1
55°	10880.0	1275.8	83.8	96.7	45.1
57.5°	10003.6	628.2	70.9	93.4	41.9
60°	9098.3	244.9	67.7	90.2	41.9
62.5°	8202.7	135.3	64.4	74.1	38.7
65°	7252.2	106.3	61.2	58.0	38.7
67.5°	6311.5	87.0	58.0	54.8	38.7
70°	5351.4	77.3	54.8	48.3	35.4
72.5°	4372.0	70.9	51.5	48.3	32.2
75°	3402.2	64.4	51.5	41.9	32.2
77.5°	2545.2	61.2	48.3	41.9	25.8
80°	1691.4	54.8	45.1	35.4	22.6
82.5°	934.3	51.5	38.7	32.2	22.6
85°	306.1	41.9	32.2	29.0	19.3
87.5°	48.3	29.0	25.8	25.8	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)