

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-TWB-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-LD5-22-N-TWB-UNV-L840-CD2-U
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

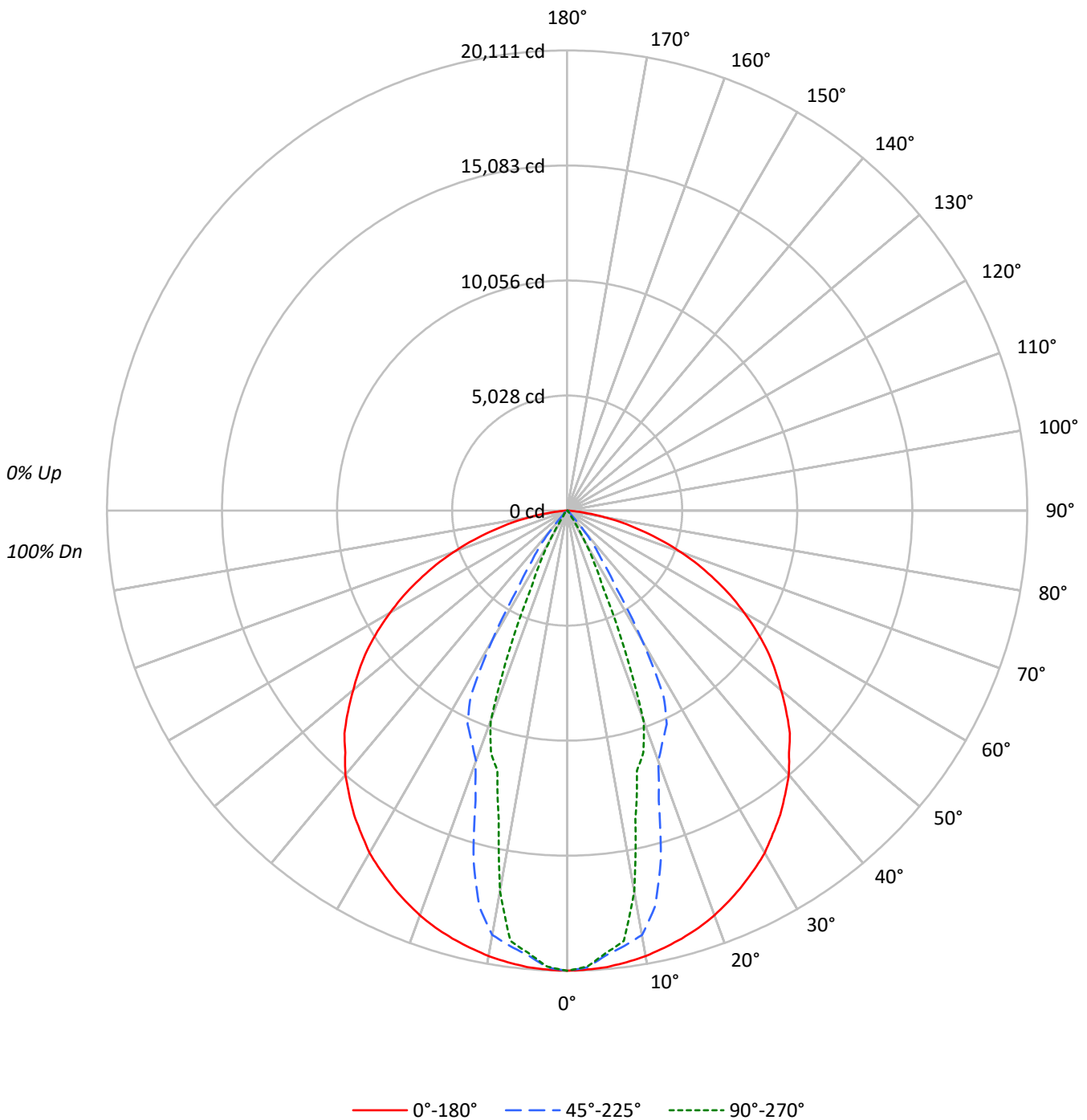
Lumens per Lamp: N/A
Luminaire Lumens: 20227.0 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 167.7
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°	29518	29518	29518
5°	29473	28531	28326
10°	29400	27649	24683
15°	29327	23479	17381
20°	29268	17638	14695
25°	29136	16039	5706
30°	29069	10623	2432
35°	28837	4525	537
40°	28587	1996	383
45°	28222	478	178
50°	27462	295	96
55°	26868	188	98
60°	25678	170	101
65°	24094	176	107
70°	21809	187	115
75°	18107	217	127
80°	13114	252	116
85°	4430	268	142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1847.3	9.1
10°-20°	4409.1	21.8
20°-30°	4820.9	23.8
30°-40°	3488.9	17.2
40°-50°	2603.7	12.9
50°-60°	1520.4	7.5
60°-70°	945.2	4.7
70°-80°	492.9	2.4
80°-90°	98.5	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°	11077.4	54.8
0°-40°	14566.3	72.0
0°-60°	18690.4	92.4
0°-90°	20227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20227.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20111	20111	20111	20111	20111	
5°	20025	19952	19509	19449	19408	###
15°	19364	18683	15807	12361	11772	5468
25°	18095	15361	10300	5370	3702	8347
35°	16234	9902	2677	579	323	10150
45°	13766	6472	250	171	95	10570
55°	10687	1253	82	95	44	9515
65°	7123	104	60	57	38	7043
75°	3342	63	51	41	32	3582
85°	301	41	32	28	19	570
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20110.6	20110.6	20110.6	20110.6	20110.6
2.5°	20078.9	20104.2	19984.0	19984.0	19949.2
5°	20025.1	19952.3	19509.3	19449.2	19408.0
7.5°	19908.0	19623.2	19189.7	19110.6	18974.5
10°	19768.8	19268.8	18832.1	17705.5	16879.6
12.5°	19572.6	18974.5	17737.2	14946.1	13800.5
15°	19363.7	18683.4	15806.8	12360.6	11772.0
17.5°	19116.9	18297.3	13297.3	11335.3	11082.2
20°	18822.6	17670.7	11645.5	10629.6	9781.5
22.5°	18477.7	16699.2	10898.6	8835.4	6547.4
25°	18094.8	15360.6	10300.5	5370.2	3702.5
27.5°	17692.9	13778.3	9117.0	3262.6	2528.5
30°	17275.1	12151.8	6579.0	2338.6	1525.3
32.5°	16740.3	10822.7	3990.5	1316.4	680.4
35°	16234.0	9901.8	2677.2	579.1	322.8
37.5°	15648.6	9265.7	1955.7	307.0	227.8
40°	15075.8	8645.5	1117.1	231.0	218.4
42.5°	14354.3	7873.3	471.5	218.4	155.1
45°	13765.7	6471.5	250.0	170.9	94.9
47.5°	12987.2	4430.3	167.7	132.9	60.1
50°	12205.6	2737.3	142.4	104.4	47.5
52.5°	11461.9	1813.3	104.4	98.1	44.3
55°	10686.6	1253.2	82.3	94.9	44.3
57.5°	9825.9	617.1	69.6	91.8	41.1
60°	8936.6	240.5	66.5	88.6	41.1
62.5°	8056.9	132.9	63.3	72.8	38.0
65°	7123.3	104.4	60.1	57.0	38.0
67.5°	6199.3	85.4	57.0	53.8	38.0
70°	5256.3	75.9	53.8	47.5	34.8
72.5°	4294.3	69.6	50.6	47.5	31.6
75°	3341.7	63.3	50.6	41.1	31.6
77.5°	2500.0	60.1	47.5	41.1	25.3
80°	1661.4	53.8	44.3	34.8	22.2
82.5°	917.7	50.6	38.0	31.6	22.2
85°	300.6	41.1	31.6	28.5	19.0
87.5°	47.5	28.5	25.3	25.3	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)