

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-LD5-32-N-UNV-L850-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-LD5-32-N-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

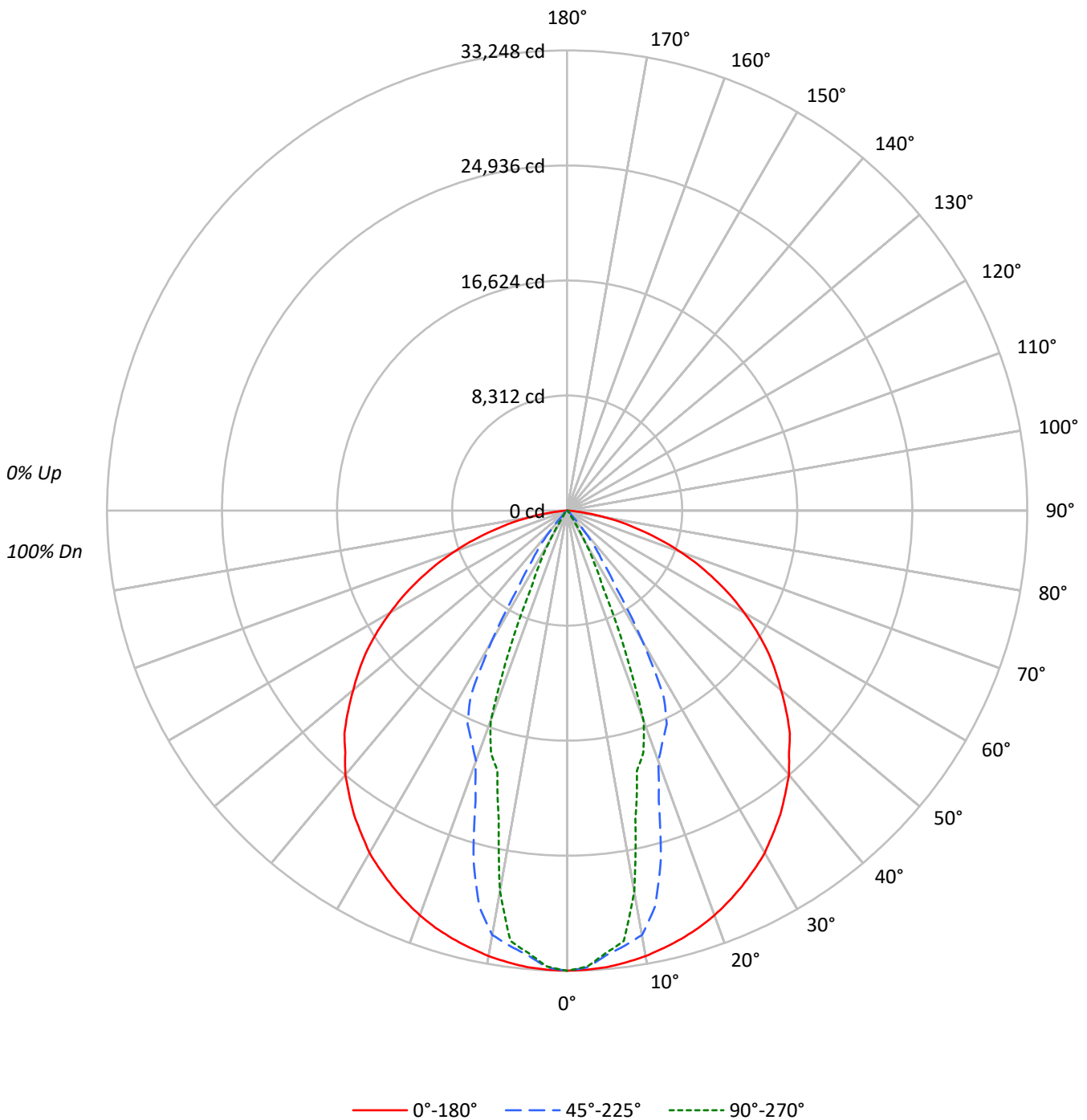
Lumens per Lamp: N/A
Luminaire Lumens: 33441.0 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 253.2
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°	48802	48802	48802
5°	48727	47169	46830
10°	48606	45712	40809
15°	48485	38817	28735
20°	48388	29161	24296
25°	48169	26517	9434
30°	48060	17563	4021
35°	47675	7481	888
40°	47262	3301	634
45°	46659	790	294
50°	45403	488	159
55°	44420	310	162
60°	42454	281	168
65°	39835	291	177
70°	36056	309	190
75°	29936	359	211
80°	21680	416	191
85°	7324	444	235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3054.2	9.1
10°-20°	7289.6	21.8
20°-30°	7970.3	23.8
30°-40°	5768.1	17.2
40°-50°	4304.7	12.9
50°-60°	2513.6	7.5
60°-70°	1562.6	4.7
70°-80°	815.0	2.4
80°-90°	162.9	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°	18314.1	54.8
0°-40°	24082.2	72.0
0°-60°	30900.5	92.4
0°-90°	33441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33441.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33248	33248	33248	33248	33248	
5°	33107	32987	32254	32155	32087	###
15°	32014	30889	26133	20436	19462	9040
25°	29916	25396	17030	8878	6121	13800
35°	26840	16370	4426	957	534	16780
45°	22759	10699	413	282	157	17475
55°	17668	2072	136	157	73	15730
65°	11777	173	99	94	63	11644
75°	5525	105	84	68	52	5921
85°	497	68	52	47	31	942
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	33248.5	33248.5	33248.5	33248.5	33248.5
2.5°	33196.2	33238.0	33039.2	33039.2	32981.7
5°	33107.2	32986.9	32254.4	32155.0	32087.0
7.5°	32913.7	32442.8	31726.0	31595.2	31370.3
10°	32683.4	31856.8	31134.8	29272.3	27906.8
12.5°	32359.1	31370.3	29324.6	24710.1	22816.2
15°	32013.8	30888.9	26133.2	20435.7	19462.5
17.5°	31605.7	30250.6	21984.3	18740.5	18322.0
20°	31119.1	29214.7	19253.3	17573.8	16171.7
22.5°	30548.8	27608.5	18018.5	14607.4	10824.7
25°	29915.8	25395.5	17029.7	8878.5	6121.3
27.5°	29251.3	22779.5	15073.0	5394.1	4180.3
30°	28560.7	20090.4	10877.0	3866.3	2521.8
32.5°	27676.6	17893.0	6597.4	2176.5	1124.9
35°	26839.5	16370.5	4426.2	957.4	533.7
37.5°	25871.6	15318.9	3233.3	507.5	376.7
40°	24924.6	14293.4	1846.8	381.9	361.0
42.5°	23731.7	13016.9	779.5	361.0	256.4
45°	22758.6	10699.2	413.3	282.5	157.0
47.5°	21471.6	7324.6	277.3	219.7	99.4
50°	20179.3	4525.6	235.4	172.7	78.5
52.5°	18949.8	2997.9	172.7	162.2	73.2
55°	17668.0	2071.8	136.0	157.0	73.2
57.5°	16244.9	1020.2	115.1	151.7	68.0
60°	14774.8	397.6	109.9	146.5	68.0
62.5°	13320.3	219.7	104.6	120.3	62.8
65°	11776.9	172.7	99.4	94.2	62.8
67.5°	10249.2	141.3	94.2	88.9	62.8
70°	8690.1	125.6	88.9	78.5	57.6
72.5°	7099.6	115.1	83.7	78.5	52.3
75°	5524.8	104.6	83.7	68.0	52.3
77.5°	4133.2	99.4	78.5	68.0	41.9
80°	2746.7	88.9	73.2	57.6	36.6
82.5°	1517.2	83.7	62.8	52.3	36.6
85°	497.0	68.0	52.3	47.1	31.4
87.5°	78.5	47.1	41.9	41.9	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)