

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: **HBLED-LD5-12HE-N-CLI-UNV-L835-ED1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-N-CLI-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

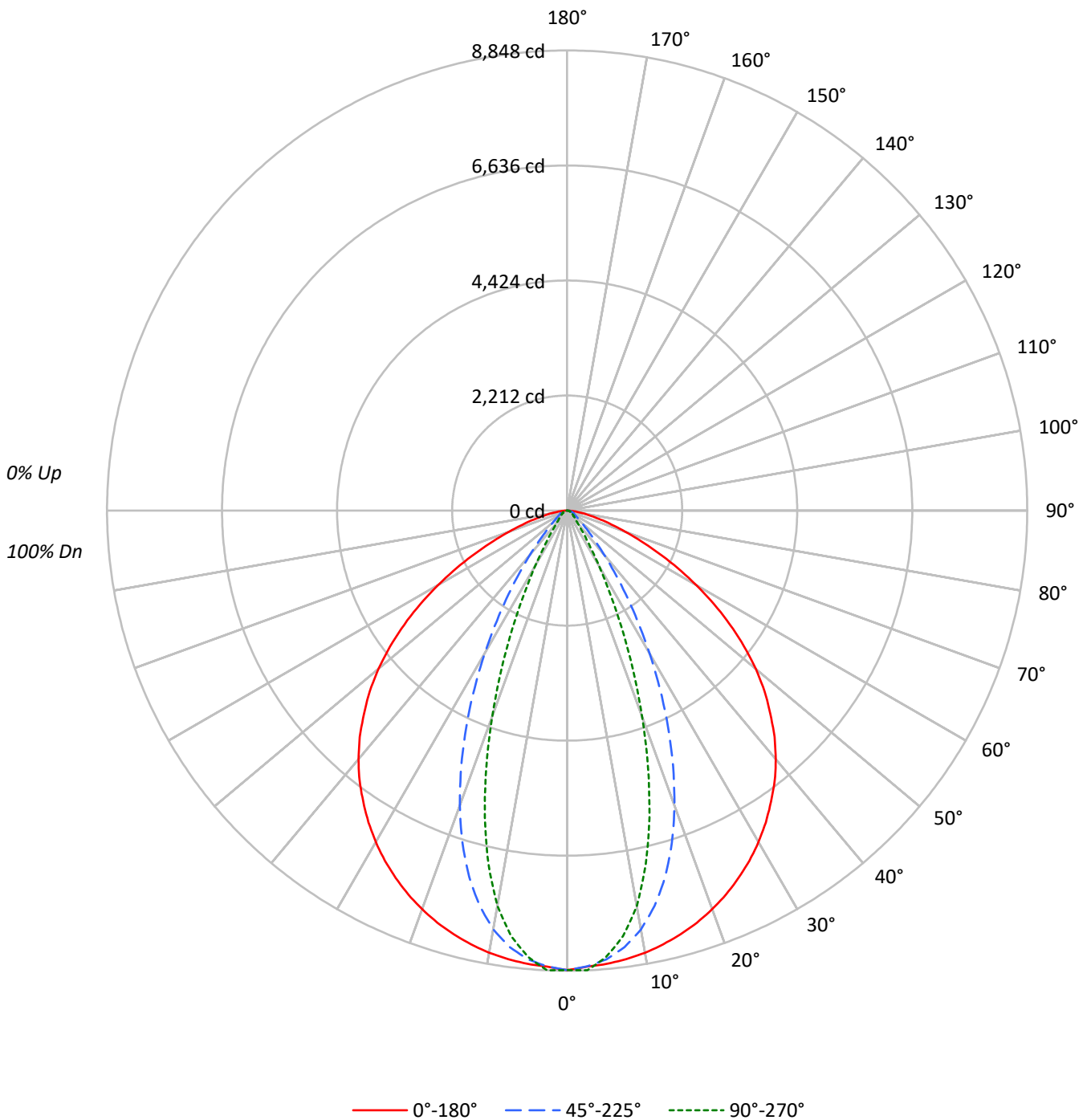
Lumens per Lamp: N/A
Luminaire Lumens: 9673.0 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
Input Voltage (V): NR
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11888	11888	11888
5°	11817	11699	11638
10°	11797	11169	10540
15°	11749	10153	8512
20°	11679	8639	6033
25°	11574	6812	3645
30°	11434	4916	1873
35°	11227	3214	936
40°	10961	1931	546
45°	10506	1153	408
50°	9909	754	343
55°	8968	572	299
60°	7707	487	273
65°	6199	444	258
70°	4670	476	256
75°	3435	452	264
80°	2514	451	288
85°	1882	546	374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	813.7	8.4
10°-20°	2024.3	20.9
20°-30°	2242.3	23.2
30°-40°	1796.4	18.6
40°-50°	1282.4	13.3
50°-60°	823.7	8.5
60°-70°	446.4	4.6
70°-80°	190.8	2.0
80°-90°	52.9	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°	5080.3	52.5
0°-40°	6876.7	71.1
0°-60°	8982.9	92.9
0°-90°	9673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8836	8836	8836	8836	8836	
5°	8749	8782	8662	8634	8616	832
15°	8435	8171	7289	6441	6111	2380
25°	7796	6874	4589	2990	2455	3592
35°	6835	4944	1957	789	570	4274
45°	5521	2854	606	258	214	4256
55°	3823	1276	244	150	128	3407
65°	1947	524	140	96	81	1950
75°	661	192	87	60	51	734
85°	122	51	35	29	24	149
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8835.6	8835.6	8835.6	8835.6	8835.6
2.5°	8777.4	8832.3	8773.2	8810.0	8847.7
5°	8749.0	8781.6	8662.0	8634.5	8616.4
7.5°	8699.7	8690.4	8465.6	8320.0	8249.7
10°	8634.5	8559.2	8175.2	7855.0	7714.5
12.5°	8541.5	8386.0	7782.0	7219.8	6981.5
15°	8434.9	8171.0	7288.7	6441.2	6110.8
17.5°	8307.4	7919.7	6699.1	5606.4	5170.3
20°	8156.6	7616.3	6033.6	4719.4	4213.5
22.5°	7988.1	7266.3	5321.1	3835.1	3292.5
25°	7796.4	6874.5	4588.6	2989.6	2455.3
27.5°	7589.3	6439.4	3860.3	2233.8	1746.5
30°	7359.4	5968.4	3164.5	1610.7	1205.8
32.5°	7108.6	5467.7	2518.1	1132.7	824.6
35°	6835.4	4944.1	1956.9	789.3	569.6
37.5°	6555.7	4409.9	1478.0	558.0	408.6
40°	6240.7	3877.5	1099.2	408.6	310.9
42.5°	5902.3	3355.3	813.5	314.6	251.8
45°	5521.2	2854.1	605.9	257.8	214.5
47.5°	5151.7	2386.9	460.3	219.7	186.6
50°	4733.8	1965.3	360.2	191.7	163.8
52.5°	4290.3	1594.4	292.3	168.9	144.3
55°	3823.0	1276.1	243.9	149.9	127.5
57.5°	3349.8	1010.8	208.5	133.6	113.6
60°	2863.9	808.4	181.0	119.6	101.5
62.5°	2389.7	646.4	158.2	107.5	90.7
65°	1947.1	524.0	139.6	96.3	81.0
67.5°	1538.1	414.2	130.3	86.6	73.1
70°	1187.2	322.5	121.0	77.3	65.2
72.5°	899.6	247.6	107.0	68.9	57.7
75°	660.8	191.7	87.0	60.5	50.7
77.5°	472.8	147.5	70.7	52.6	43.7
80°	324.4	109.8	58.2	45.1	37.2
82.5°	210.8	77.7	47.0	37.2	30.7
85°	121.9	50.7	35.4	29.3	24.2
87.5°	52.6	27.9	24.2	21.9	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)