

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-CLWG-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-N-CLWG-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

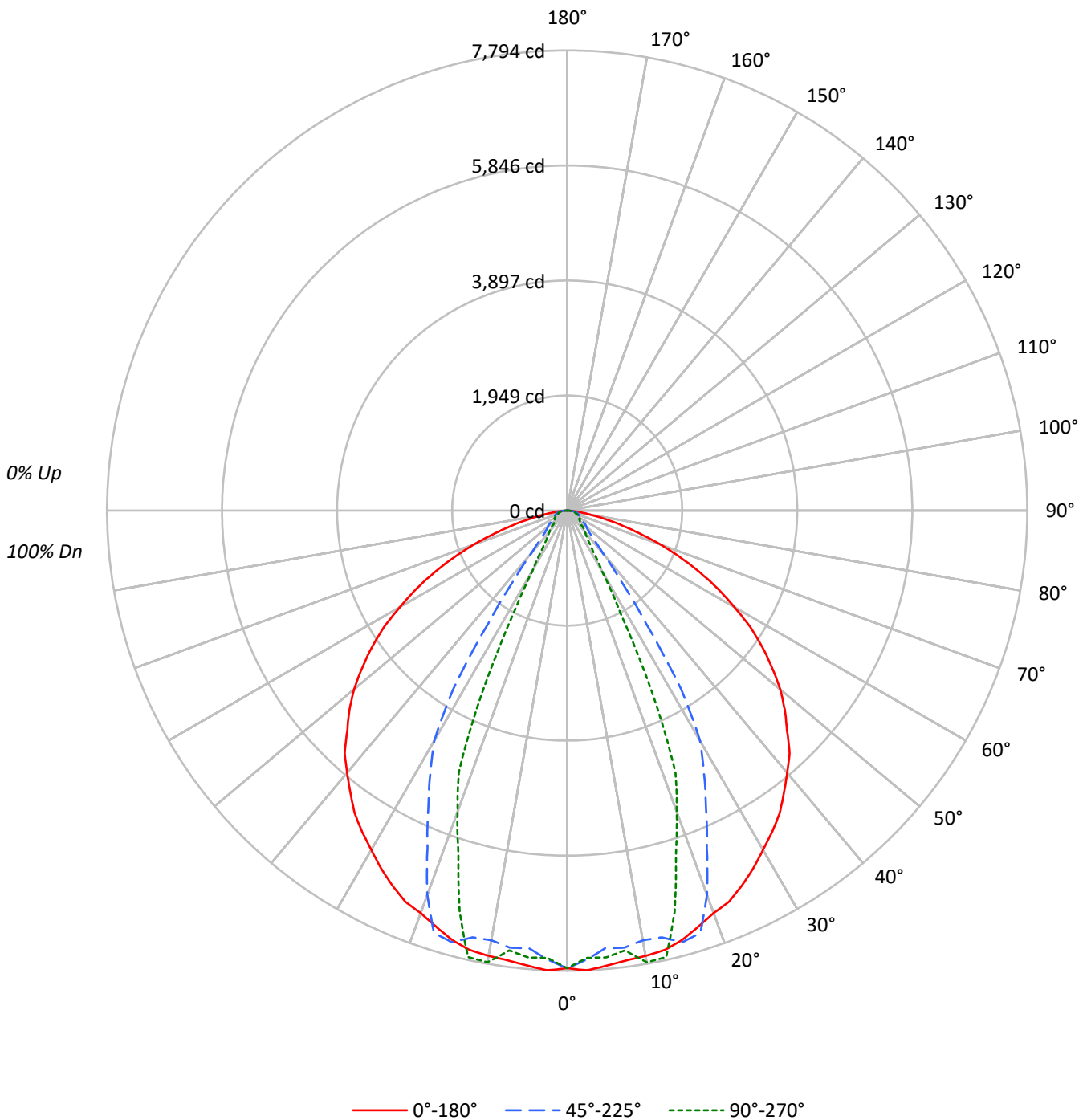
Lumens per Lamp: N/A
Luminaire Lumens: 10421.0 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
Input Voltage (V): NR
Input Current (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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71				71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64				64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58				58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48				48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44				44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41				41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38				38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10430	10430	10430
5°	10447	10049	10261
10°	10462	10098	10616
15°	10485	10540	9796
20°	10386	9913	7776
25°	10401	8265	5079
30°	10308	7001	1825
35°	10297	3793	1026
40°	10181	1653	804
45°	10023	1022	630
50°	9867	890	595
55°	9479	772	582
60°	8795	692	626
65°	7905	782	684
70°	6630	841	705
75°	4956	959	763
80°	3113	1113	870
85°	2073	1396	1274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.5	6.9
10°-20°	2028.8	19.5
20°-30°	2484.3	23.8
30°-40°	1950.9	18.7
40°-50°	1446.8	13.9
50°-60°	880.7	8.5
60°-70°	527.6	5.1
70°-80°	289.5	2.8
80°-90°	93.9	0.9
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°	5231.6	50.2
0°-40°	7182.6	68.9
0°-60°	9510.1	91.3
0°-90°	10421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10421.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7752	7752	7752	7752	7752	
5°	7735	7524	7440	7522	7597	736
15°	7528	7321	7567	7261	7033	2119
25°	7006	7028	5567	4366	3421	3225
35°	6269	5703	2309	773	625	3912
45°	5268	3782	537	407	331	4073
55°	4041	1042	329	278	248	3596
65°	2483	307	246	231	215	2453
75°	953	194	184	160	147	1032
85°	134	106	90	83	82	164
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7751.7	7751.7	7751.7	7751.7	7751.7
2.5°	7794.0	7689.0	7608.5	7563.6	7581.9
5°	7734.9	7524.4	7440.3	7522.3	7597.0
7.5°	7683.7	7370.8	7465.9	7473.2	7512.4
10°	7657.6	7356.2	7390.7	7553.1	7769.9
12.5°	7623.1	7390.1	7402.2	7623.7	7745.9
15°	7527.5	7321.2	7566.7	7261.1	7032.8
17.5°	7388.1	7160.3	7497.8	6432.6	6122.2
20°	7253.8	6985.3	6923.6	5729.9	5430.6
22.5°	7167.1	6958.6	6184.9	5105.6	4796.3
25°	7006.2	7028.1	5566.9	4366.4	3421.3
27.5°	6829.1	6864.6	5020.5	2912.0	1960.1
30°	6634.7	6675.5	4506.4	1720.9	1174.4
32.5°	6458.7	6228.8	3598.9	1073.6	816.5
35°	6269.0	5702.7	2309.1	772.7	624.8
37.5°	6030.3	5150.0	1461.7	611.2	524.5
40°	5796.2	4653.7	941.4	521.9	457.6
42.5°	5577.4	4244.7	684.9	456.1	413.2
45°	5267.6	3782.3	537.0	407.0	331.2
47.5°	4999.6	3240.0	469.7	344.3	285.8
50°	4713.8	2477.3	425.2	306.1	284.2
52.5°	4374.7	1620.5	392.9	293.1	265.4
55°	4040.9	1042.2	329.1	278.4	248.1
57.5°	3680.4	660.9	290.5	270.1	259.1
60°	3268.3	445.6	257.0	256.0	232.5
62.5°	2886.9	366.2	248.1	245.5	219.9
65°	2483.1	307.2	245.5	230.9	214.7
67.5°	2079.8	263.3	222.0	211.1	197.0
70°	1685.3	240.8	213.7	209.0	179.2
72.5°	1279.9	198.5	189.6	177.1	148.9
75°	953.4	193.8	184.4	160.4	146.8
77.5°	645.2	178.7	167.7	143.7	132.7
80°	401.7	164.0	143.7	125.9	112.3
82.5°	238.7	136.9	118.1	104.0	95.1
85°	134.3	105.5	90.4	83.1	82.5
87.5°	28.7	38.1	30.3	28.7	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)