

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-CL-UNV-L740-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 (P23768)
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-CL-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

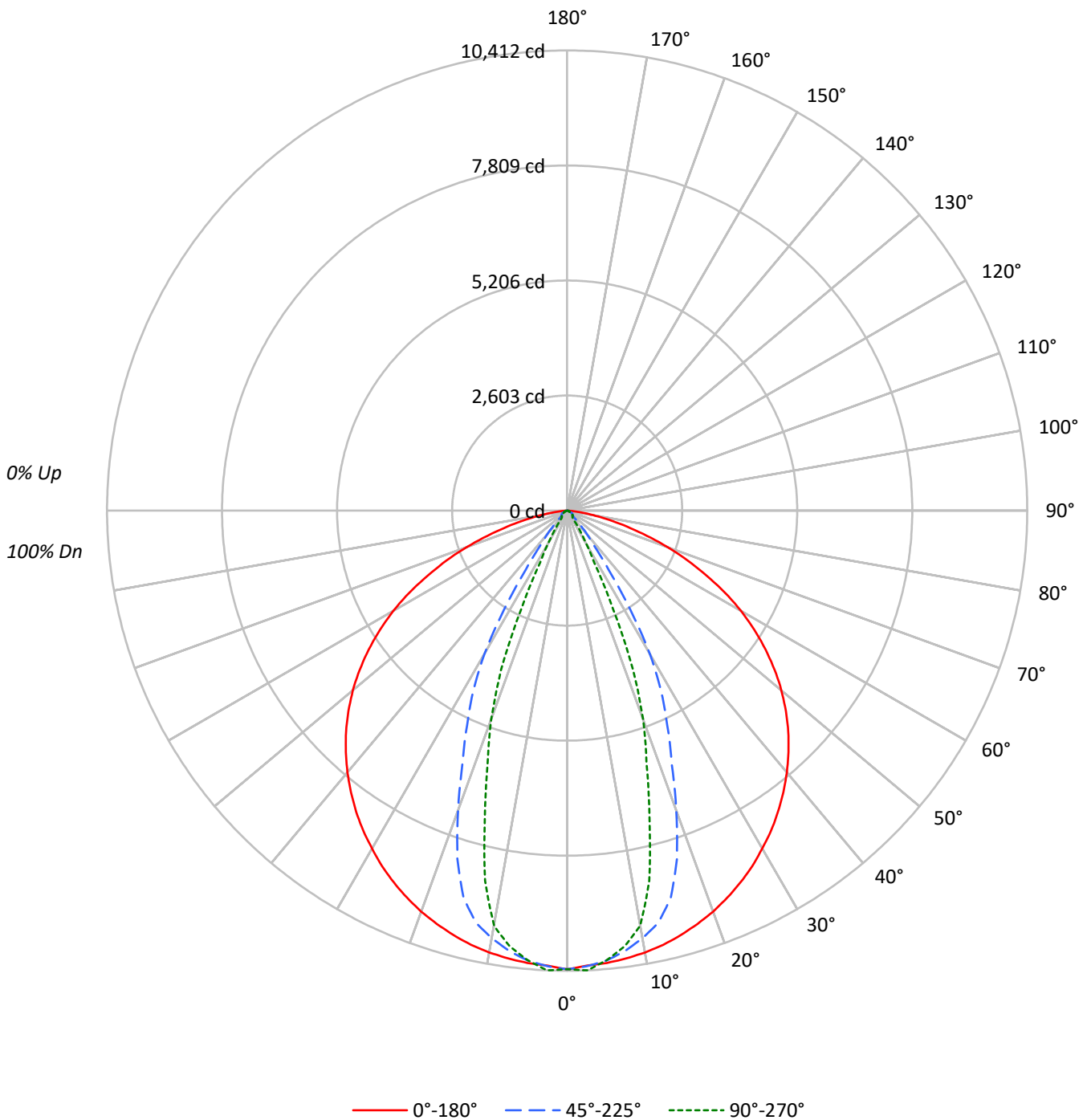
Lumens per Lamp: N/A
Luminaire Lumens: 11099.0 lumens
Efficiency: N/A
Efficacy: 152.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13963	13963	13963
5°	13877	13805	13795
10°	13868	13423	13027
15°	13852	12623	10017
20°	13825	10330	7185
25°	13782	7959	3651
30°	13717	5808	1328
35°	13668	2667	462
40°	13584	1211	319
45°	13463	452	323
50°	13248	328	340
55°	12856	345	259
60°	12217	369	229
65°	11079	281	186
70°	9499	203	171
75°	7261	179	163
80°	4543	169	177
85°	1434	196	238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	966.2	8.7
10°-20°	2433.9	21.9
20°-30°	2650.6	23.9
30°-40°	1982.8	17.9
40°-50°	1425.7	12.8
50°-60°	875.6	7.9
60°-70°	503.8	4.5
70°-80°	224.9	2.0
80°-90°	35.7	0.3
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°	6050.6	54.5
0°-40°	8033.4	72.4
0°-60°	10334.6	93.1
0°-90°	11099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11099.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10378	10378	10378	10378	10378	
5°	10275	10323	10221	10231	10214	977
15°	9944	9754	9062	7783	7191	2807
25°	9283	8617	5361	3440	2459	4279
35°	8321	5968	1624	477	282	5205
45°	7075	3353	237	176	170	5451
55°	5480	697	147	142	110	4886
65°	3480	76	88	73	58	3445
75°	1397	46	34	36	31	1516
85°	93	9	13	16	15	185
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10377.9	10377.9	10377.9	10377.9	10377.9
2.5°	10305.6	10373.1	10316.3	10367.2	10412.4
5°	10274.8	10323.2	10221.2	10230.8	10213.8
7.5°	10221.7	10233.4	10049.1	9978.0	9943.5
10°	10150.6	10119.2	9825.0	9655.6	9535.1
12.5°	10060.8	9957.3	9546.2	8941.4	8580.8
15°	9944.5	9753.9	9061.9	7782.6	7191.0
17.5°	9805.9	9541.4	8260.0	6486.3	5974.4
20°	9655.6	9306.7	7214.4	5515.0	5017.9
22.5°	9478.3	9006.7	6183.1	4586.7	3904.3
25°	9283.4	8617.4	5361.0	3439.6	2459.3
27.5°	9073.1	8103.9	4600.0	2109.3	1329.8
30°	8828.8	7478.8	3738.6	1183.7	855.0
32.5°	8590.3	6750.2	2670.7	788.6	546.5
35°	8321.1	5968.0	1624.0	477.4	281.5
37.5°	8035.9	5256.9	1016.4	259.7	194.4
40°	7733.7	4582.5	689.3	184.3	181.6
42.5°	7410.9	3972.3	431.7	175.2	181.1
45°	7075.2	3353.1	237.4	175.8	169.9
47.5°	6710.9	2680.8	165.7	166.2	165.7
50°	6329.1	1922.9	156.7	164.1	162.5
52.5°	5917.5	1193.8	157.2	160.4	143.9
55°	5480.5	696.7	147.1	142.3	110.5
57.5°	5021.1	434.4	143.9	117.4	99.3
60°	4540.0	229.4	137.0	105.7	85.0
62.5°	4027.5	113.1	109.9	90.3	69.6
65°	3480.0	76.5	88.2	73.3	58.4
67.5°	2951.1	69.0	66.4	60.0	51.0
70°	2414.7	63.2	51.5	52.6	43.5
72.5°	1888.4	57.4	41.4	45.1	36.6
75°	1396.7	46.2	34.5	35.6	31.3
77.5°	971.8	36.1	27.1	30.3	29.2
80°	586.3	22.8	21.8	25.0	22.8
82.5°	284.1	14.9	17.0	19.6	18.1
85°	92.9	9.0	12.7	16.5	15.4
87.5°	11.7	5.3	10.6	14.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)