

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-W-AWG-UNV-L850-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 (P23764)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-W-AWG-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

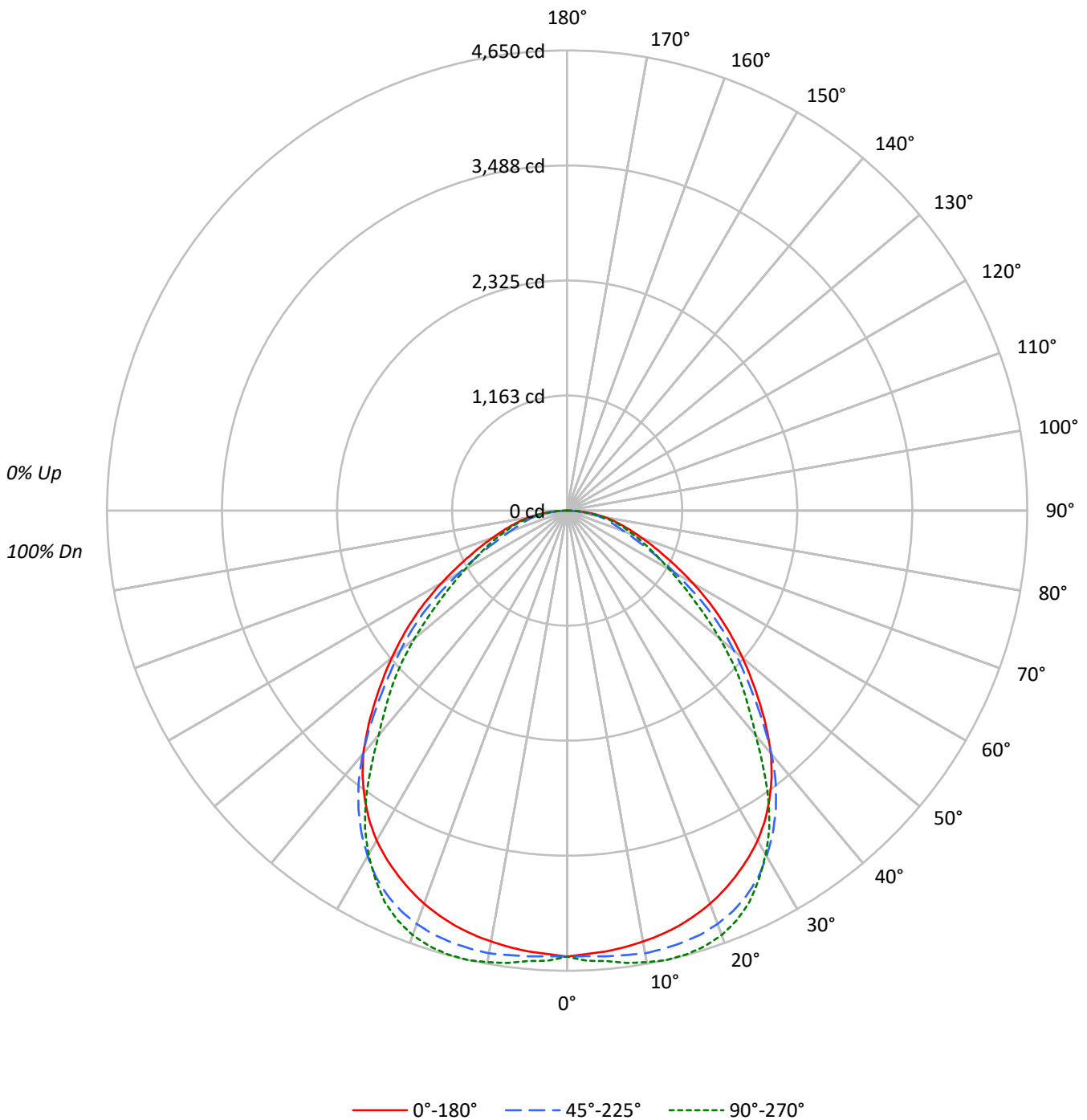
Lumens per Lamp: N/A
Luminaire Lumens: 11172.0 lumens
Efficiency: N/A
Efficacy: 153.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88					86				
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57					55				
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50					48				
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44					42				
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40					38				
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33					31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6064	6064	6064
5°	6040	6108	6170
10°	6042	6206	6331
15°	6053	6292	6469
20°	6052	6364	6535
25°	6026	6372	6476
30°	5981	6266	6233
35°	5855	6040	5820
40°	5626	5642	5203
45°	5236	5086	4756
50°	4840	4599	4214
55°	4431	4076	3637
60°	3951	3383	3212
65°	3465	2784	2951
70°	3129	2399	2810
75°	2990	2351	2802
80°	3014	2489	2734
85°	2671	2280	2387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.9	3.9
10°-20°	1275.8	11.4
20°-30°	1956.9	17.5
30°-40°	2250.7	20.1
40°-50°	2052.8	18.4
50°-60°	1538.6	13.8
60°-70°	946.4	8.5
70°-80°	542.3	4.9
80°-90°	175.6	1.6
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°	3665.6	32.8
0°-40°	5916.3	53.0
0°-60°	9507.6	85.1
0°-90°	11172.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11172.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4507	4507	4507	4507	4507	
5°	4472	4518	4522	4560	4568	425
15°	4346	4442	4517	4614	4644	1227
25°	4059	4176	4292	4358	4362	1870
35°	3564	3634	3677	3617	3543	2223
45°	2752	2812	2673	2535	2500	2124
55°	1889	1819	1738	1584	1550	1687
65°	1088	973	875	902	927	1094
75°	575	515	452	518	539	615
85°	173	163	148	156	155	193
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4506.7	4506.7	4506.7	4506.7	4506.7
2.5°	4485.4	4517.6	4507.3	4533.7	4553.2
5°	4472.2	4517.6	4522.2	4559.6	4568.2
7.5°	4449.8	4509.0	4529.7	4595.8	4610.7
10°	4422.2	4493.5	4542.3	4613.6	4633.7
12.5°	4388.9	4471.6	4533.7	4621.6	4650.3
15°	4345.8	4442.3	4517.0	4613.6	4644.0
17.5°	4291.2	4403.3	4490.6	4585.4	4617.0
20°	4226.9	4345.2	4444.6	4541.7	4564.2
22.5°	4149.3	4268.2	4381.4	4468.8	4480.8
25°	4059.1	4175.7	4292.4	4358.4	4361.9
27.5°	3960.8	4069.4	4178.6	4214.2	4198.7
30°	3849.9	3947.0	4033.2	4040.7	4012.0
32.5°	3718.3	3805.7	3867.1	3851.1	3802.8
35°	3564.3	3633.9	3677.0	3616.6	3543.1
37.5°	3395.4	3447.7	3462.0	3331.0	3247.1
40°	3202.9	3247.7	3212.1	3029.9	2962.1
42.5°	2981.1	3032.8	2941.4	2761.6	2720.2
45°	2751.8	2811.6	2673.1	2535.2	2499.6
47.5°	2527.1	2581.7	2424.9	2314.0	2261.1
50°	2312.2	2335.8	2197.3	2072.1	2013.4
52.5°	2100.8	2077.2	1979.0	1823.2	1771.5
55°	1888.8	1818.7	1737.6	1584.2	1550.3
57.5°	1676.1	1578.5	1490.0	1372.2	1359.0
60°	1468.1	1348.0	1257.3	1187.2	1193.5
62.5°	1269.9	1147.5	1050.4	1028.0	1052.1
65°	1088.3	973.4	874.6	901.6	926.9
67.5°	937.2	826.9	726.3	795.3	815.4
70°	795.3	706.2	609.7	698.7	714.2
72.5°	682.1	606.2	522.3	609.1	622.3
75°	575.2	515.4	452.2	517.7	539.0
77.5°	482.1	432.7	389.6	428.1	451.1
80°	389.0	347.1	321.2	338.4	352.8
82.5°	285.0	258.0	239.0	246.5	248.8
85°	173.0	163.2	147.7	155.7	154.6
87.5°	56.9	64.9	68.4	61.5	58.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)