

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-AI-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 (P23765)  
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-AI-UNV-L850-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

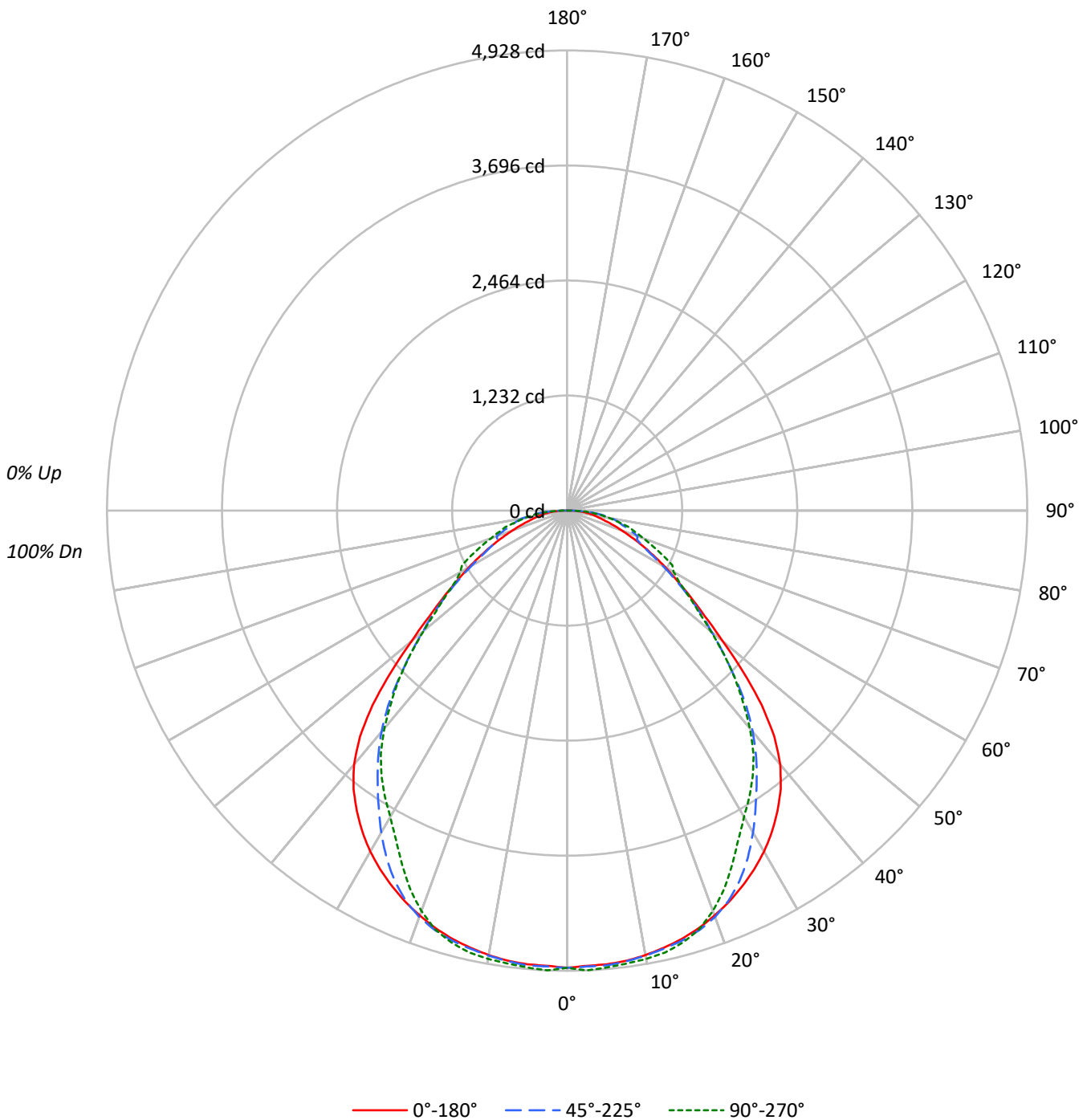
Lumens per Lamp: N/A  
Luminaire Lumens: 11332.0 lumens  
Efficiency: N/A  
Efficacy: 156.1 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6587	6587	6587
5°	6587	6601	6633
10°	6603	6612	6660
15°	6613	6638	6671
20°	6607	6631	6533
25°	6590	6491	6209
30°	6551	6185	5884
35°	6453	5813	5692
40°	6237	5435	5346
45°	5606	4853	4836
50°	4547	4227	4199
55°	3775	3705	3704
60°	3269	3173	3548
65°	2833	2815	3576
70°	2443	3158	3409
75°	2190	3237	3554
80°	2276	3810	3565
85°	2584	4390	4074



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.1	4.1
10°-20°	1346.3	11.9
20°-30°	1999.5	17.6
30°-40°	2270.0	20.0
40°-50°	2029.2	17.9
50°-60°	1403.0	12.4
60°-70°	925.8	8.2
70°-80°	624.6	5.5
80°-90°	267.5	2.4
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°	3811.9	33.6
0°-40°	6081.8	53.7
0°-60°	9514.1	84.0
0°-90°	11332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11332.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4896	4896	4896	4896	4896	
5°	4877	4907	4888	4907	4911	464
15°	4748	4770	4766	4792	4789	1340
25°	4439	4481	4372	4242	4182	2045
35°	3928	3846	3539	3488	3466	2450
45°	2946	2696	2551	2570	2541	2240
55°	1609	1469	1579	1557	1579	1462
65°	890	790	884	1034	1123	888
75°	421	530	623	665	684	460
85°	167	233	284	286	264	175
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4895.8	4895.8	4895.8	4895.8	4895.8
2.5°	4879.1	4909.6	4886.9	4908.0	4928.5
5°	4876.9	4906.9	4887.5	4907.4	4911.3
7.5°	4863.1	4890.8	4868.1	4887.5	4891.9
10°	4833.1	4865.8	4839.2	4869.2	4874.7
12.5°	4794.3	4827.6	4804.3	4845.3	4847.5
15°	4747.8	4770.5	4765.5	4792.1	4788.8
17.5°	4689.0	4715.0	4711.2	4717.8	4702.3
20°	4614.1	4643.5	4631.3	4600.8	4562.6
22.5°	4533.8	4569.2	4521.0	4444.0	4390.2
25°	4439.0	4481.1	4372.4	4242.2	4182.3
27.5°	4334.2	4371.9	4191.2	4031.5	3969.4
30°	4216.7	4232.7	3981.0	3829.1	3787.0
32.5°	4080.8	4057.5	3756.5	3656.2	3631.8
35°	3928.4	3845.8	3539.2	3487.6	3465.5
37.5°	3756.5	3605.2	3324.6	3300.8	3277.5
40°	3550.8	3327.4	3094.6	3079.1	3043.6
42.5°	3285.3	3025.3	2839.0	2820.7	2789.1
45°	2946.0	2696.5	2550.7	2570.1	2541.3
47.5°	2555.7	2366.7	2274.1	2327.3	2274.1
50°	2172.1	2045.1	2019.6	2067.9	2005.8
52.5°	1857.7	1743.5	1796.2	1804.5	1767.4
55°	1609.4	1469.1	1579.4	1557.3	1578.9
57.5°	1393.2	1236.3	1372.1	1346.6	1420.9
60°	1214.7	1038.4	1179.2	1173.6	1318.3
62.5°	1039.5	898.7	1011.8	1093.2	1271.2
65°	889.8	790.0	884.2	1033.9	1123.2
67.5°	746.2	708.5	808.8	892.0	989.6
70°	620.9	640.3	802.7	787.2	866.5
72.5°	515.6	581.5	708.5	711.3	767.3
75°	421.3	530.0	622.6	665.3	683.6
77.5°	350.4	480.7	562.1	577.1	559.4
80°	293.8	423.6	491.7	485.1	460.1
82.5°	237.3	321.0	387.5	393.6	364.2
85°	167.4	232.8	284.4	286.1	263.9
87.5°	89.8	143.6	172.4	177.4	164.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)