

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-CL-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 (P23762)  
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-CL-UNV-L850-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

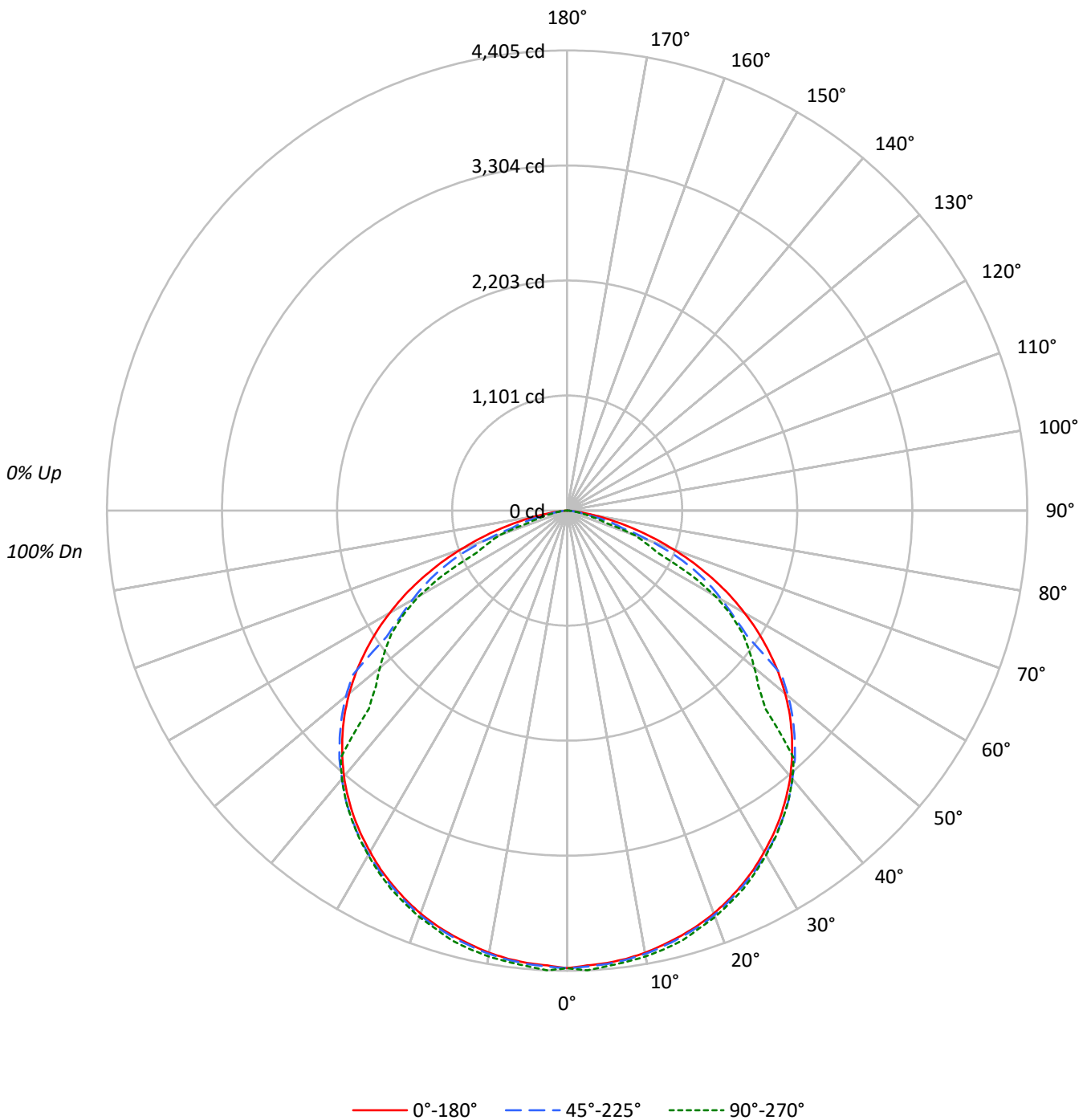
Lumens per Lamp: N/A  
Luminaire Lumens: 11840.0 lumens  
Efficiency: N/A  
Efficacy: 163.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	5893	5893	5893
5°	5871	5884	5913
10°	5871	5887	5922
15°	5870	5888	5936
20°	5878	5900	5927
25°	5871	5893	5929
30°	5860	5903	5916
35°	5857	5911	5915
40°	5839	5890	5890
45°	5789	5859	5105
50°	5699	5785	4898
55°	5538	4952	4811
60°	5278	4603	4395
65°	4881	4273	3044
70°	4250	3325	2712
75°	3357	2232	1458
80°	2161	1066	909
85°	889	650	716



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	415.4	3.5
10°-20°	1197.5	10.1
20°-30°	1835.9	15.5
30°-40°	2250.1	19.0
40°-50°	2313.3	19.5
50°-60°	1974.3	16.7
60°-70°	1305.3	11.0
70°-80°	483.6	4.1
80°-90°	64.7	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°	3448.8	29.1
0°-40°	5698.9	48.1
0°-60°	9986.5	84.3
0°-90°	11840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11840.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4380	4380	4380	4380	4380	
5°	4347	4377	4357	4374	4378	413
15°	4214	4240	4227	4259	4261	1190
25°	3955	3975	3970	4005	3994	1823
35°	3566	3590	3598	3621	3601	2230
45°	3042	3073	3079	3074	2683	2344
55°	2361	2404	2111	2050	2051	2106
65°	1533	1546	1342	1104	956	1512
75°	646	566	429	288	280	693
85°	58	41	42	46	46	95
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4379.6	4379.6	4379.6	4379.6	4379.6
2.5°	4358.2	4385.4	4369.4	4389.7	4405.2
5°	4347.0	4377.4	4356.6	4373.7	4378.0
7.5°	4327.8	4356.1	4336.9	4359.3	4356.1
10°	4296.9	4322.5	4309.2	4332.6	4334.2
12.5°	4257.5	4283.1	4270.8	4299.6	4299.1
15°	4214.3	4239.9	4227.1	4259.1	4261.2
17.5°	4163.6	4187.1	4177.5	4206.8	4195.1
20°	4104.9	4125.2	4120.4	4148.1	4139.6
22.5°	4033.0	4053.8	4049.0	4081.0	4068.2
25°	3954.6	3975.4	3969.5	4005.2	3993.5
27.5°	3869.8	3889.5	3889.0	3922.6	3904.4
30°	3771.7	3797.8	3799.4	3829.3	3807.9
32.5°	3674.6	3699.1	3706.1	3727.9	3709.8
35°	3565.8	3590.4	3598.4	3620.8	3601.0
37.5°	3448.5	3469.3	3483.7	3500.2	3484.8
40°	3324.3	3342.9	3353.6	3373.9	3353.6
42.5°	3185.6	3212.3	3227.2	3241.6	3208.6
45°	3042.2	3072.6	3079.0	3074.2	2682.8
47.5°	2890.2	2923.3	2927.0	2552.7	2480.7
50°	2722.8	2764.4	2763.8	2359.1	2339.9
52.5°	2548.4	2588.4	2586.8	2207.6	2194.9
55°	2360.7	2403.9	2111.1	2049.8	2050.9
57.5°	2169.3	2200.2	1894.1	1896.8	1861.6
60°	1961.3	1990.6	1710.7	1694.1	1633.3
62.5°	1752.8	1765.1	1533.1	1452.6	1336.9
65°	1533.1	1545.9	1342.2	1103.8	956.1
67.5°	1307.5	1320.3	1114.0	821.2	810.0
70°	1080.4	975.8	845.2	684.2	689.5
72.5°	856.4	749.7	552.4	530.0	382.9
75°	645.8	565.8	429.3	288.5	280.5
77.5°	449.5	389.8	229.8	196.8	184.0
80°	278.9	195.7	137.6	122.1	117.3
82.5°	141.3	112.5	74.7	74.7	74.7
85°	57.6	41.1	42.1	45.9	46.4
87.5°	12.3	16.5	20.3	20.8	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)