

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-A-UNV-L750-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 (P23761)  
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-A-UNV-L750-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

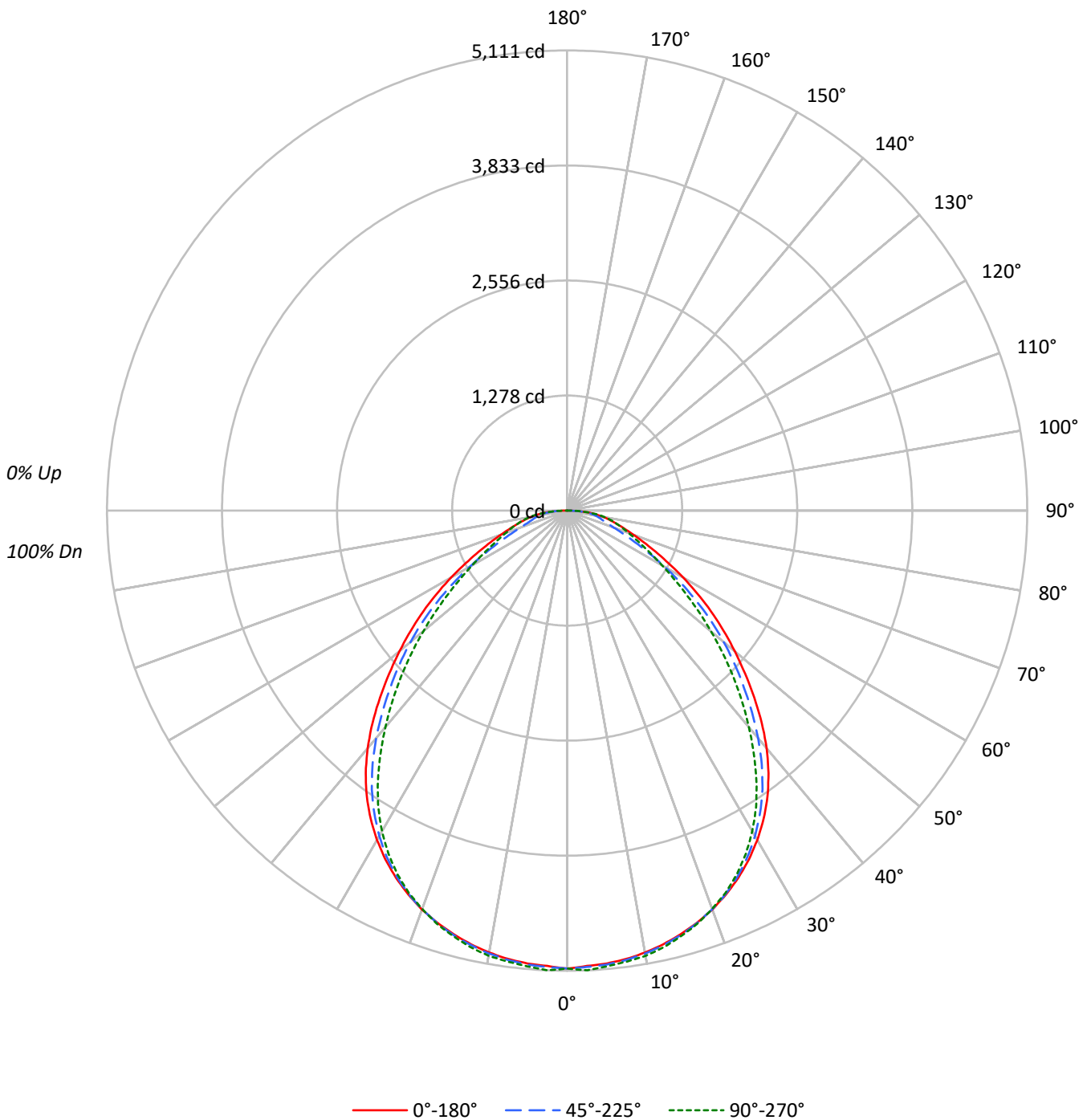
Lumens per Lamp: N/A  
Luminaire Lumens: 11684.0 lumens  
Efficiency: N/A  
Efficacy: 160.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

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

	0°	45°	90°
0°	6843	6843	6843
5°	6819	6835	6863
10°	6810	6825	6860
15°	6787	6800	6816
20°	6751	6746	6741
25°	6678	6655	6618
30°	6563	6483	6389
35°	6372	6212	6021
40°	6055	5795	5517
45°	5594	5282	4962
50°	5085	4756	4365
55°	4572	4118	3773
60°	4001	3365	3274
65°	3450	2646	2955
70°	3076	2159	2848
75°	2946	2108	2976
80°	3187	2493	3316
85°	3577	3003	3612



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	482.1	4.1
10°-20°	1379.6	11.8
20°-30°	2063.7	17.7
30°-40°	2354.5	20.2
40°-50°	2143.3	18.3
50°-60°	1573.8	13.5
60°-70°	929.3	8.0
70°-80°	532.5	4.6
80°-90°	225.2	1.9
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°	3925.4	33.6
0°-40°	6279.9	53.7
0°-60°	9997.0	85.6
0°-90°	11684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11684.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5086	5086	5086	5086	5086	
5°	5049	5080	5060	5080	5081	480
15°	4872	4899	4882	4899	4894	1375
25°	4498	4514	4483	4481	4458	2071
35°	3879	3860	3782	3717	3665	2417
45°	2940	2923	2776	2651	2608	2266
55°	1949	1859	1755	1628	1608	1743
65°	1084	946	831	889	928	1090
75°	567	486	406	529	572	611
85°	232	214	194	229	234	242
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5086.2	5086.2	5086.2	5086.2	5086.2
2.5°	5062.7	5092.0	5073.6	5093.7	5110.9
5°	5049.0	5080.5	5060.4	5080.5	5081.1
7.5°	5023.7	5053.0	5033.5	5055.3	5053.0
10°	4984.1	5013.4	4995.6	5019.1	5020.9
12.5°	4933.7	4961.8	4943.4	4970.4	4965.8
15°	4872.3	4899.2	4882.0	4899.2	4893.5
17.5°	4800.0	4824.7	4802.3	4821.2	4811.5
20°	4715.1	4735.8	4711.7	4729.5	4708.2
22.5°	4613.6	4631.9	4606.7	4616.5	4594.7
25°	4498.3	4514.3	4482.8	4481.1	4457.6
27.5°	4369.8	4378.4	4338.2	4324.5	4297.5
30°	4224.1	4226.4	4173.0	4147.2	4112.2
32.5°	4060.6	4054.9	3986.6	3948.2	3905.2
35°	3879.4	3860.4	3781.8	3717.0	3665.4
37.5°	3674.6	3644.7	3550.7	3454.9	3405.6
40°	3447.4	3412.4	3299.4	3180.7	3141.1
42.5°	3200.2	3170.4	3037.3	2913.4	2874.4
45°	2939.8	2922.6	2775.7	2651.2	2607.7
47.5°	2679.4	2666.7	2523.3	2396.6	2343.8
50°	2429.3	2401.7	2272.1	2133.3	2085.1
52.5°	2186.6	2130.4	2016.3	1874.0	1838.4
55°	1949.1	1859.1	1755.3	1627.9	1608.4
57.5°	1714.0	1597.5	1496.6	1401.3	1400.8
60°	1486.8	1353.7	1250.5	1200.6	1216.6
62.5°	1274.0	1137.5	1025.6	1029.1	1058.3
65°	1083.6	945.9	831.2	889.1	928.1
67.5°	920.1	788.7	672.3	780.1	817.4
70°	781.8	663.1	548.9	683.7	723.9
72.5°	665.4	565.6	462.9	603.4	644.2
75°	566.7	485.9	405.5	528.9	572.5
77.5°	486.4	414.7	363.7	457.7	503.1
80°	411.3	348.2	321.8	388.9	427.9
82.5°	325.8	282.2	266.7	316.1	336.1
85°	231.7	214.0	194.5	229.4	234.0
87.5°	127.3	131.9	109.0	131.9	132.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)