

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

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

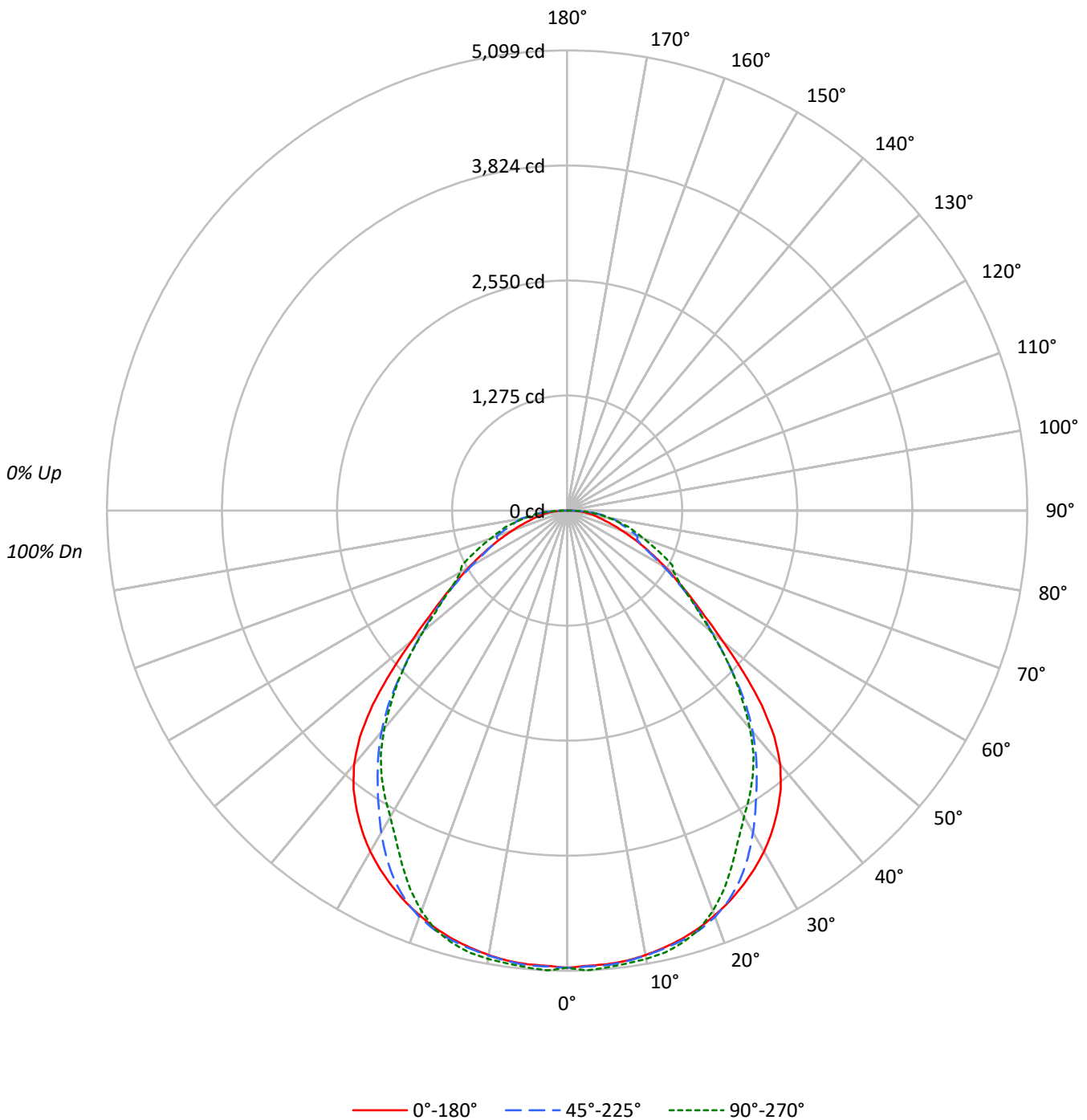
Lumens per Lamp: N/A  
Luminaire Lumens: 11725.0 lumens  
Efficiency: N/A  
Efficacy: 161.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	6816	6816	6816
5°	6815	6830	6863
10°	6832	6841	6891
15°	6843	6868	6902
20°	6836	6861	6759
25°	6819	6716	6424
30°	6778	6400	6088
35°	6676	6015	5889
40°	6453	5624	5531
45°	5800	5022	5003
50°	4704	4374	4344
55°	3906	3833	3832
60°	3382	3283	3670
65°	2931	2913	3700
70°	2527	3268	3527
75°	2266	3349	3677
80°	2356	3942	3689
85°	2674	4543	4215



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	482.3	4.1
10°-20°	1392.9	11.9
20°-30°	2068.8	17.6
30°-40°	2348.7	20.0
40°-50°	2099.6	17.9
50°-60°	1451.7	12.4
60°-70°	957.9	8.2
70°-80°	646.2	5.5
80°-90°	276.8	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°	3944.1	33.6
0°-40°	6292.7	53.7
0°-60°	9844.1	84.0
0°-90°	11725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11725.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5066	5066	5066	5066	5066	
5°	5046	5077	5057	5078	5082	480
15°	4912	4936	4931	4958	4955	1387
25°	4593	4636	4524	4389	4327	2116
35°	4065	3979	3662	3609	3586	2535
45°	3048	2790	2639	2659	2629	2318
55°	1665	1520	1634	1611	1634	1513
65°	921	817	915	1070	1162	919
75°	436	548	644	688	707	476
85°	173	241	294	296	273	181
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5065.6	5065.6	5065.6	5065.6	5065.6
2.5°	5048.4	5079.9	5056.4	5078.2	5099.4
5°	5046.1	5077.0	5057.0	5077.6	5081.6
7.5°	5031.7	5060.4	5036.9	5057.0	5061.5
10°	5000.7	5034.6	5007.1	5038.0	5043.8
12.5°	4960.6	4995.0	4970.9	5013.4	5015.7
15°	4912.4	4935.9	4930.8	4958.3	4954.9
17.5°	4851.6	4878.6	4874.5	4881.4	4865.4
20°	4774.2	4804.6	4791.9	4760.4	4720.8
22.5°	4691.0	4727.7	4677.8	4598.1	4542.4
25°	4592.9	4636.5	4524.1	4389.3	4327.3
27.5°	4484.5	4523.5	4336.5	4171.3	4107.1
30°	4362.9	4379.5	4119.1	3961.9	3918.3
32.5°	4222.4	4198.3	3886.8	3783.0	3757.7
35°	4064.6	3979.1	3661.9	3608.6	3585.6
37.5°	3886.8	3730.2	3439.9	3415.3	3391.2
40°	3674.0	3442.8	3201.9	3185.8	3149.1
42.5°	3399.2	3130.2	2937.5	2918.5	2885.8
45°	3048.2	2790.0	2639.2	2659.3	2629.4
47.5°	2644.3	2448.7	2353.0	2408.0	2353.0
50°	2247.4	2116.1	2089.7	2139.6	2075.3
52.5°	1922.2	1804.0	1858.5	1867.1	1828.7
55°	1665.2	1520.1	1634.2	1611.3	1633.6
57.5°	1441.5	1279.2	1419.7	1393.3	1470.2
60°	1256.8	1074.4	1220.1	1214.3	1364.0
62.5°	1075.5	929.8	1046.8	1131.2	1315.3
65°	920.6	817.4	914.9	1069.8	1162.1
67.5°	772.1	733.1	836.9	922.9	1023.9
70°	642.4	662.5	830.6	814.5	896.6
72.5°	533.5	601.7	733.1	735.9	793.9
75°	435.9	548.4	644.2	688.3	707.3
77.5°	362.5	497.3	581.6	597.1	578.8
80°	304.0	438.2	508.8	501.9	476.1
82.5°	245.5	332.1	401.0	407.3	376.9
85°	173.2	240.9	294.3	296.0	273.0
87.5°	92.9	148.6	178.4	183.6	169.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)