

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-WG-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 (P33336)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-12HE-W-WG-UNV-L750-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

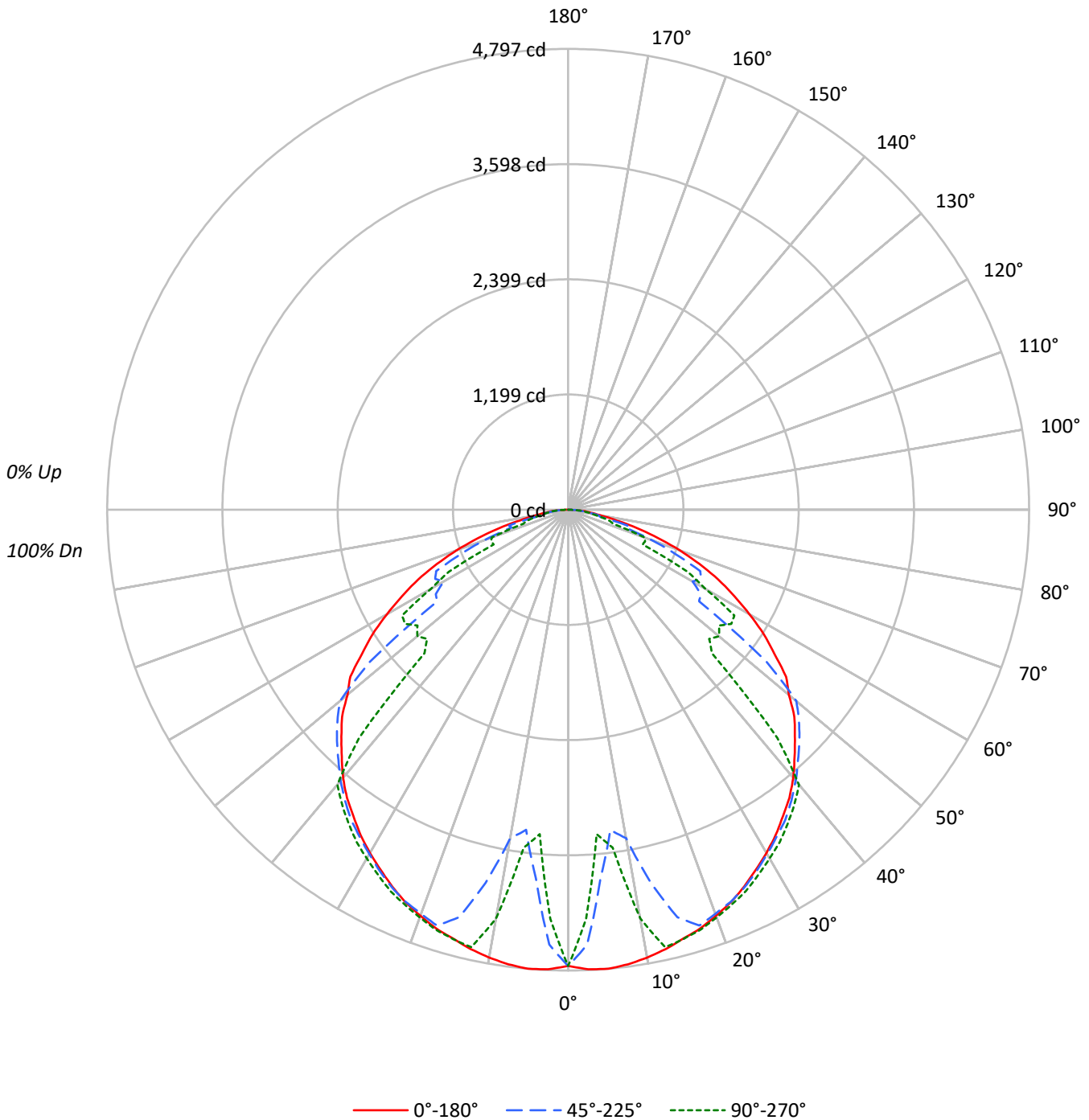
Lumens per Lamp: N/A  
Luminaire Lumens: 12582.0 lumens  
Efficiency: N/A  
Efficacy: 173.3 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	6390	6390	6390
5°	6479	5205	4578
10°	6468	4747	5904
15°	6439	6118	6445
20°	6439	6410	6467
25°	6428	6442	6501
30°	6409	6430	6513
35°	6399	6470	6545
40°	6400	6470	6562
45°	6349	6474	4023
50°	6278	6487	4288
55°	6145	3901	4860
60°	5862	4021	4450
65°	5493	4827	2723
70°	4850	3657	3338
75°	3865	3324	2314
80°	2662	2403	1989
85°	2552	2218	2104



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.8	3.0
10°-20°	1189.8	9.5
20°-30°	1957.5	15.6
30°-40°	2461.2	19.6
40°-50°	2413.9	19.2
50°-60°	2000.0	15.9
60°-70°	1410.6	11.2
70°-80°	615.4	4.9
80°-90°	153.8	1.2
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°	3527.0	28.0
0°-40°	5988.3	47.6
0°-60°	10402.1	82.7
0°-90°	12582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12582.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4749	4749	4749	4749	4749	
5°	4797	4465	3854	3494	3389	455
15°	4623	3210	4392	4641	4627	1307
25°	4330	3962	4339	4368	4379	1996
35°	3896	3894	3939	3965	3985	2441
45°	3337	3347	3402	3013	2114	2576
55°	2620	2705	1663	1890	2072	2344
65°	1725	1827	1516	1166	855	1696
75°	743	729	639	418	445	797
85°	165	147	144	137	136	171
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4749.3	4749.3	4749.3	4749.3	4749.3
2.5°	4788.5	4689.1	4531.2	4332.5	4262.0
5°	4797.0	4464.8	3853.7	3494.3	3389.2
7.5°	4772.6	4057.6	3359.7	3435.2	3546.5
10°	4734.0	3699.8	3474.4	4087.7	4321.1
12.5°	4684.6	3381.8	3980.4	4617.5	4664.1
15°	4622.7	3210.3	4392.1	4640.8	4626.6
17.5°	4570.4	3310.8	4539.7	4594.3	4584.0
20°	4497.2	3511.3	4476.7	4520.4	4516.5
22.5°	4423.3	3748.7	4417.1	4448.3	4448.3
25°	4329.6	3961.6	4339.3	4368.2	4379.0
27.5°	4226.8	4084.3	4242.2	4266.0	4285.3
30°	4125.2	4101.9	4138.8	4169.5	4192.2
32.5°	4017.8	4008.8	4037.7	4070.1	4099.1
35°	3895.8	3893.5	3938.9	3965.0	3984.9
37.5°	3781.0	3773.1	3815.1	3851.5	3866.8
40°	3643.6	3643.6	3683.4	3720.3	3736.2
42.5°	3486.9	3509.0	3539.7	3577.7	3222.2
45°	3336.9	3347.2	3402.3	3013.2	2114.3
47.5°	3192.7	3205.8	3258.0	1937.1	1989.9
50°	2999.0	3058.1	3099.0	1931.4	2048.4
52.5°	2857.6	2883.2	2601.5	1912.1	1978.0
55°	2619.7	2705.4	1662.8	1890.5	2071.7
57.5°	2416.4	2478.9	1635.0	1937.1	2049.5
60°	2178.4	2273.8	1494.1	1868.9	1653.7
62.5°	1950.1	2041.0	1560.0	1470.8	1400.4
65°	1725.3	1826.9	1516.3	1166.5	855.2
67.5°	1478.8	1384.0	1209.6	821.7	864.9
70°	1232.9	966.6	929.6	918.9	848.4
72.5°	980.2	705.3	617.3	689.4	493.5
75°	743.4	728.6	639.4	418.0	445.2
77.5°	515.6	525.9	342.4	407.7	338.5
80°	343.6	297.6	310.1	260.1	256.7
82.5°	237.9	243.1	203.9	197.6	200.5
85°	165.3	147.1	143.7	137.4	136.3
87.5°	55.1	64.2	59.6	53.9	57.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)