

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-L840-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-L840-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

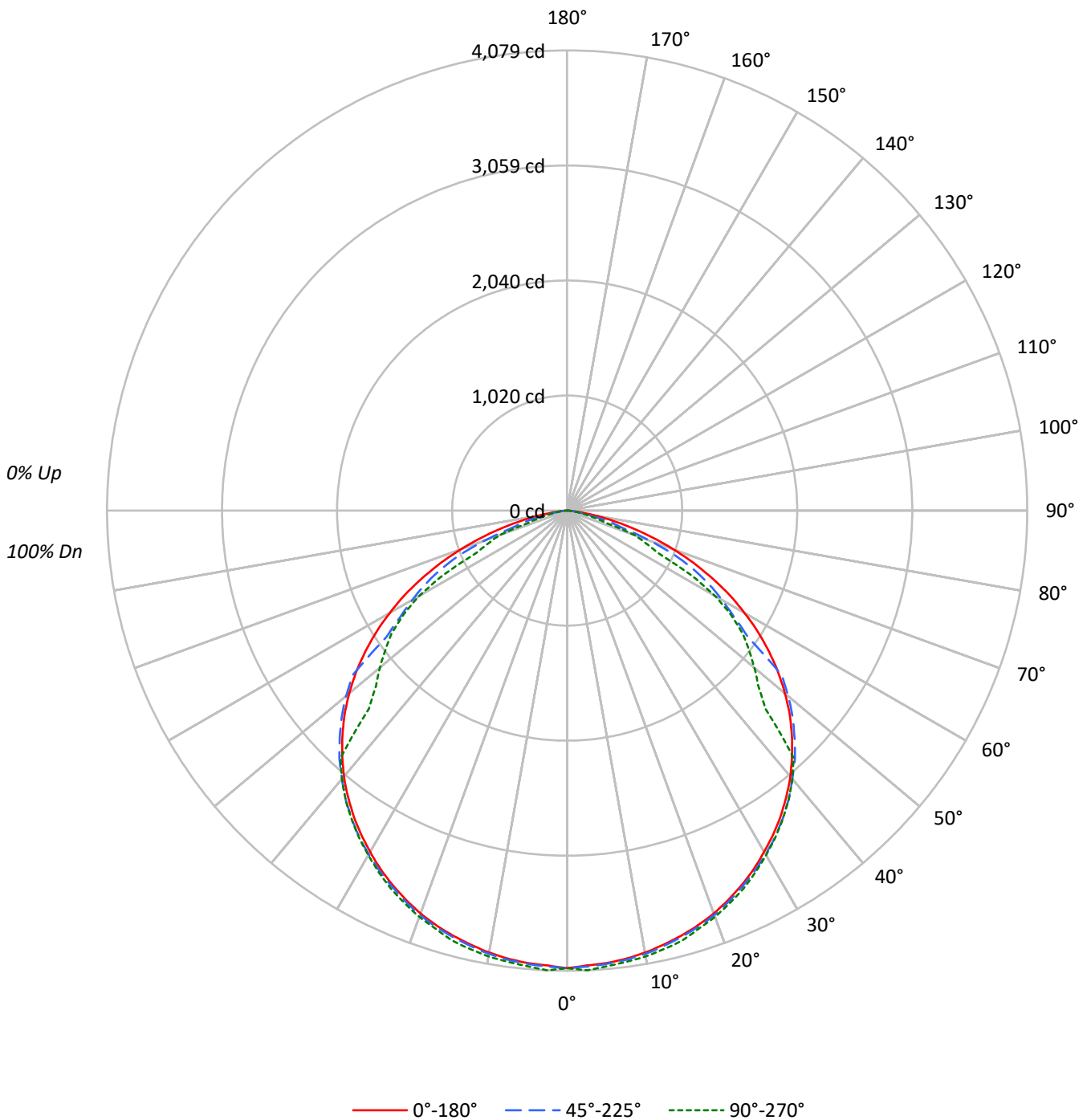
Lumens per Lamp: N/A  
Luminaire Lumens: 10963.0 lumens  
Efficiency: N/A  
Efficacy: 151.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	5456	5456	5456
5°	5436	5448	5475
10°	5436	5451	5483
15°	5435	5452	5496
20°	5442	5463	5488
25°	5436	5457	5490
30°	5426	5466	5478
35°	5423	5473	5477
40°	5406	5454	5454
45°	5360	5425	4727
50°	5277	5357	4535
55°	5127	4586	4455
60°	4887	4263	4070
65°	4519	3957	2819
70°	3935	3079	2511
75°	3108	2066	1350
80°	2001	987	841
85°	823	602	664



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.7	3.5
10°-20°	1108.7	10.1
20°-30°	1699.9	15.5
30°-40°	2083.5	19.0
40°-50°	2142.0	19.5
50°-60°	1828.1	16.7
60°-70°	1208.6	11.0
70°-80°	447.8	4.1
80°-90°	59.9	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°	3193.3	29.1
0°-40°	5276.8	48.1
0°-60°	9246.8	84.3
0°-90°	10963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10963.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4055	4055	4055	4055	4055	
5°	4025	4053	4034	4050	4054	383
15°	3902	3926	3914	3944	3946	1102
25°	3662	3681	3676	3709	3698	1688
35°	3302	3324	3332	3353	3334	2065
45°	2817	2845	2851	2846	2484	2171
55°	2186	2226	1955	1898	1899	1950
65°	1420	1431	1243	1022	885	1400
75°	598	524	398	267	260	641
85°	53	38	39	42	43	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4055.2	4055.2	4055.2	4055.2	4055.2
2.5°	4035.4	4060.6	4045.8	4064.6	4078.9
5°	4025.1	4053.2	4033.9	4049.7	4053.7
7.5°	4007.3	4033.4	4015.7	4036.4	4033.4
10°	3978.6	4002.3	3990.0	4011.7	4013.2
12.5°	3942.1	3965.8	3954.4	3981.1	3980.6
15°	3902.1	3925.8	3914.0	3943.6	3945.6
17.5°	3855.2	3876.9	3868.0	3895.2	3884.3
20°	3800.9	3819.7	3815.2	3840.9	3833.0
22.5°	3734.2	3753.5	3749.0	3778.7	3766.8
25°	3661.7	3680.9	3675.5	3708.6	3697.7
27.5°	3583.1	3601.4	3600.9	3632.0	3615.2
30°	3492.3	3516.5	3518.0	3545.6	3525.9
32.5°	3402.4	3425.1	3431.6	3451.8	3435.0
35°	3301.7	3324.4	3331.8	3352.6	3334.3
37.5°	3193.1	3212.3	3225.7	3241.0	3226.7
40°	3078.0	3095.3	3105.2	3124.0	3105.2
42.5°	2949.7	2974.4	2988.2	3001.5	2970.9
45°	2816.8	2845.0	2850.9	2846.5	2484.1
47.5°	2676.1	2706.7	2710.2	2363.6	2296.9
50°	2521.1	2559.6	2559.1	2184.4	2166.6
52.5°	2359.6	2396.7	2395.2	2044.1	2032.3
55°	2185.8	2225.8	1954.8	1898.0	1899.0
57.5°	2008.6	2037.2	1753.8	1756.3	1723.7
60°	1816.0	1843.2	1584.0	1568.6	1512.4
62.5°	1623.0	1634.3	1419.5	1345.0	1237.8
65°	1419.5	1431.4	1242.8	1022.1	885.3
67.5°	1210.7	1222.5	1031.4	760.4	750.0
70°	1000.3	903.6	782.6	633.5	638.4
72.5°	793.0	694.2	511.5	490.8	354.5
75°	597.9	523.9	397.5	267.1	259.7
77.5°	416.2	360.9	212.8	182.2	170.3
80°	258.2	181.2	127.4	113.1	108.6
82.5°	130.8	104.2	69.1	69.1	69.1
85°	53.3	38.0	39.0	42.5	43.0
87.5°	11.4	15.3	18.8	19.3	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)