

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-N-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 (P23768)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-12HE-N-CL-UNV-L850-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

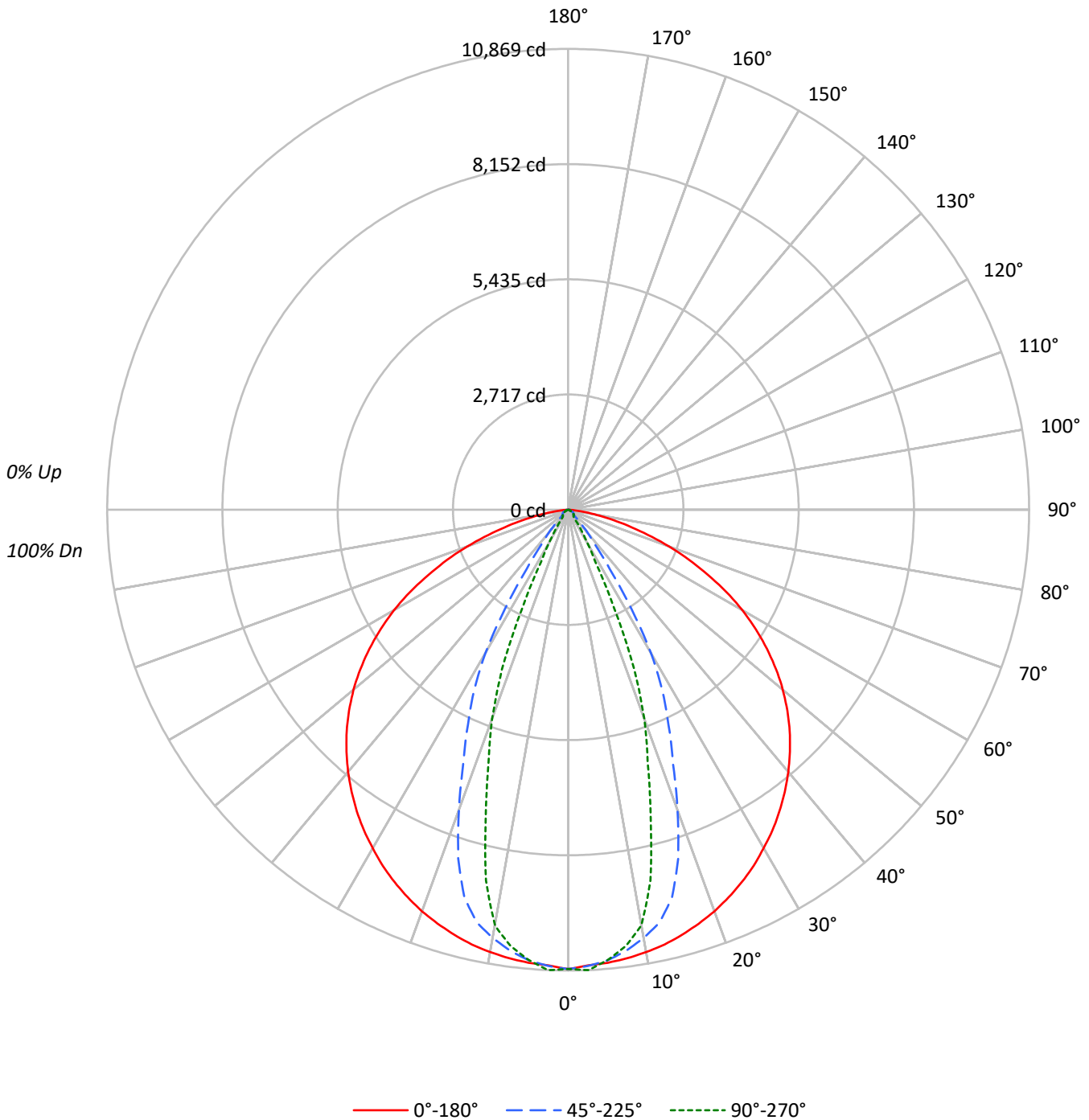
Lumens per Lamp: N/A  
Luminaire Lumens: 11586.0 lumens  
Efficiency: N/A  
Efficacy: 159.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92					90				
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83					81				
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75					73				
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68					66				
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62					60				
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57					55				
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53					51				
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49					47				
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46					44				
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43					41				

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

	0°	45°	90°
0°	14576	14576	14576
5°	14486	14411	14400
10°	14477	14012	13599
15°	14460	13177	10456
20°	14432	10783	7500
25°	14387	8308	3811
30°	14319	6063	1387
35°	14267	2784	483
40°	14180	1264	333
45°	14054	472	338
50°	13829	342	355
55°	13420	360	270
60°	12753	385	239
65°	11565	293	194
70°	9916	212	179
75°	7580	187	170
80°	4742	176	184
85°	1497	205	249



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1008.6	8.7
10°-20°	2540.7	21.9
20°-30°	2766.9	23.9
30°-40°	2069.8	17.9
40°-50°	1488.2	12.8
50°-60°	914.0	7.9
60°-70°	525.9	4.5
70°-80°	234.7	2.0
80°-90°	37.2	0.3
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°	6316.1	54.5
0°-40°	8385.9	72.4
0°-60°	10788.1	93.1
0°-90°	11586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11586.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10833	10833	10833	10833	10833	
5°	10726	10776	10670	10680	10662	###
15°	10381	10182	9460	8124	7506	2930
25°	9691	8996	5596	3591	2567	4467
35°	8686	6230	1695	498	294	5433
45°	7386	3500	248	184	177	5690
55°	5721	727	154	149	115	5101
65°	3633	80	92	76	61	3596
75°	1458	48	36	37	33	1582
85°	97	9	13	17	16	193
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10833.2	10833.2	10833.2	10833.2	10833.2
2.5°	10757.8	10828.2	10768.9	10822.1	10869.3
5°	10725.7	10776.1	10669.7	10679.7	10661.9
7.5°	10670.2	10682.4	10490.1	10415.8	10379.8
10°	10596.0	10563.2	10256.1	10079.3	9953.5
12.5°	10502.3	10394.2	9965.1	9333.7	8957.3
15°	10380.9	10181.8	9459.5	8124.1	7506.5
17.5°	10236.2	9960.1	8622.4	6770.9	6236.5
20°	10079.3	9715.1	7530.9	5757.0	5238.1
22.5°	9894.1	9401.9	6454.4	4788.0	4075.6
25°	9690.7	8995.5	5596.2	3590.6	2567.2
27.5°	9471.2	8459.5	4801.8	2201.9	1388.1
30°	9216.2	7807.0	3902.7	1235.7	892.5
32.5°	8967.3	7046.4	2787.9	823.2	570.4
35°	8686.2	6229.8	1695.2	498.4	293.8
37.5°	8388.5	5487.6	1061.0	271.1	202.9
40°	8073.1	4783.5	719.6	192.4	189.6
42.5°	7736.0	4146.6	450.7	182.9	189.0
45°	7385.7	3500.2	247.8	183.5	177.4
47.5°	7005.4	2798.4	173.0	173.5	173.0
50°	6606.8	2007.3	163.5	171.3	169.6
52.5°	6177.2	1246.2	164.1	167.4	150.2
55°	5720.9	727.3	153.6	148.6	115.3
57.5°	5241.4	453.5	150.2	122.5	103.7
60°	4739.2	239.5	143.0	110.3	88.7
62.5°	4204.2	118.1	114.8	94.2	72.6
65°	3632.7	79.8	92.0	76.5	61.0
67.5°	3080.6	72.1	69.3	62.6	53.2
70°	2520.7	66.0	53.8	54.9	45.5
72.5°	1971.3	59.9	43.2	47.1	38.3
75°	1458.0	48.2	36.0	37.1	32.7
77.5°	1014.5	37.7	28.3	31.6	30.5
80°	612.0	23.8	22.7	26.1	23.8
82.5°	296.6	15.5	17.7	20.5	18.8
85°	97.0	9.4	13.3	17.2	16.1
87.5°	12.2	5.5	11.1	15.0	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)