

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-UNV-L740-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 (P23767)  
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-UNV-L740-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

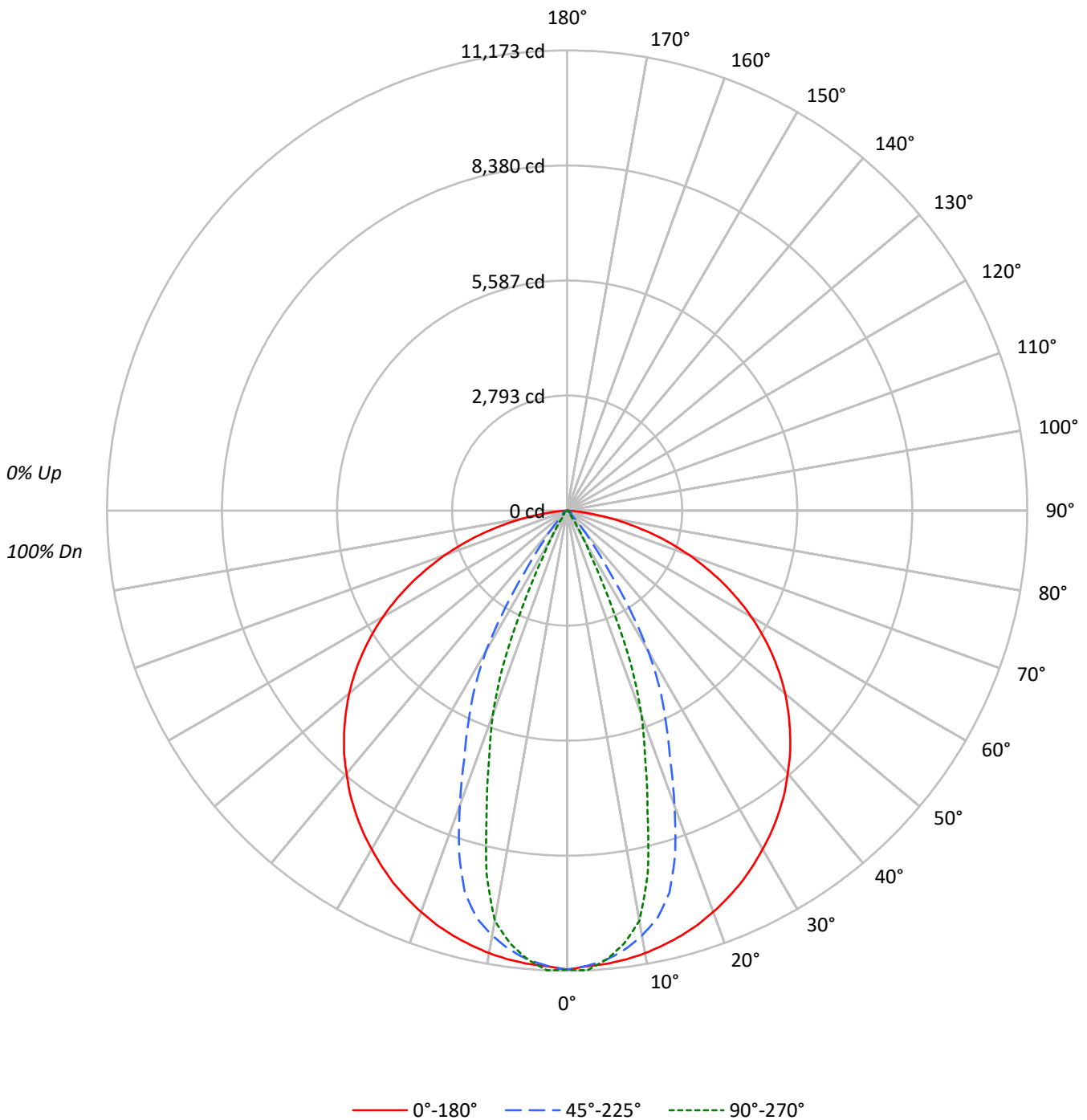
Lumens per Lamp: N/A  
Luminaire Lumens: 11847.0 lumens  
Efficiency: N/A  
Efficacy: 163.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

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

	0°	45°	90°
0°	14997	14997	14997
5°	14917	14785	14779
10°	14908	14311	13809
15°	14886	13370	10510
20°	14852	10899	7565
25°	14814	8428	3727
30°	14749	6125	1209
35°	14714	2717	311
40°	14637	1104	210
45°	14571	310	223
50°	14458	220	247
55°	14249	261	106
60°	13898	291	64
65°	13326	186	76
70°	12380	165	94
75°	10830	124	129
80°	8098	152	185
85°	4011	196	245



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1034.4	8.7
10°-20°	2586.5	21.8
20°-30°	2801.5	23.6
30°-40°	2074.7	17.5
40°-50°	1494.3	12.6
50°-60°	925.2	7.8
60°-70°	569.0	4.8
70°-80°	300.0	2.5
80°-90°	61.4	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°	6422.4	54.2
0°-40°	8497.1	71.7
0°-60°	10916.6	92.1
0°-90°	11847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11847.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11146	11146	11146	11146	11146	
5°	11044	11085	10947	10955	10942	###
15°	10687	10439	9598	8162	7545	3017
25°	9979	9140	5677	3571	2510	4598
35°	8958	6315	1654	389	189	5604
45°	7658	3558	163	118	117	5906
55°	6074	733	111	101	45	5423
65°	4186	77	58	37	24	4130
75°	2083	18	24	31	25	2200
85°	260	7	13	19	16	393
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11146.2	11146.2	11146.2	11146.2	11146.2
2.5°	11074.6	11145.1	11061.9	11123.9	11173.2
5°	11044.4	11085.2	10946.8	10954.8	10942.1
7.5°	10991.4	10981.8	10749.0	10647.2	10602.7
10°	10911.3	10848.2	10474.9	10262.3	10107.5
12.5°	10807.9	10666.9	10132.9	9456.8	9036.9
15°	10687.0	10438.9	9598.4	8162.5	7544.8
17.5°	10542.8	10191.2	8724.6	6841.2	6289.7
20°	10372.6	9915.0	7612.1	5820.5	5283.3
22.5°	10182.7	9578.8	6531.5	4837.4	4071.2
25°	9978.6	9140.3	5676.8	3571.2	2510.2
27.5°	9742.6	8576.6	4875.0	2103.5	1281.1
30°	9492.9	7897.9	3942.3	1131.5	777.9
32.5°	9241.0	7128.6	2789.6	706.8	441.2
35°	8957.9	6315.2	1654.4	389.2	189.3
37.5°	8662.5	5569.7	977.8	177.1	121.4
40°	8333.3	4888.3	628.3	117.7	119.3
42.5°	8015.1	4253.1	353.7	116.1	118.2
45°	7657.7	3557.9	162.8	117.7	117.2
47.5°	7288.2	2837.3	105.5	118.8	118.8
50°	6906.9	2028.7	105.0	121.4	118.2
52.5°	6504.5	1265.7	109.2	120.9	97.0
55°	6074.4	732.8	111.4	100.7	45.1
57.5°	5629.0	432.1	112.4	57.8	25.5
60°	5164.5	239.1	108.2	42.9	23.9
62.5°	4685.7	114.0	85.4	40.3	23.3
65°	4185.7	77.4	58.3	37.1	23.9
67.5°	3666.6	59.9	46.1	35.0	24.4
70°	3147.0	44.5	41.9	35.0	23.9
72.5°	2618.9	30.2	35.0	35.5	23.9
75°	2083.3	18.0	23.9	31.3	24.9
77.5°	1552.5	11.1	18.6	32.3	30.2
80°	1045.1	9.5	19.6	30.2	23.9
82.5°	613.5	8.5	19.1	23.3	19.1
85°	259.8	6.9	12.7	19.1	15.9
87.5°	48.8	5.8	10.1	15.4	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)