

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-LD5-15HE-N-CLWG-UNV-L735-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 (P33344)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-15HE-N-CLWG-UNV-L735-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

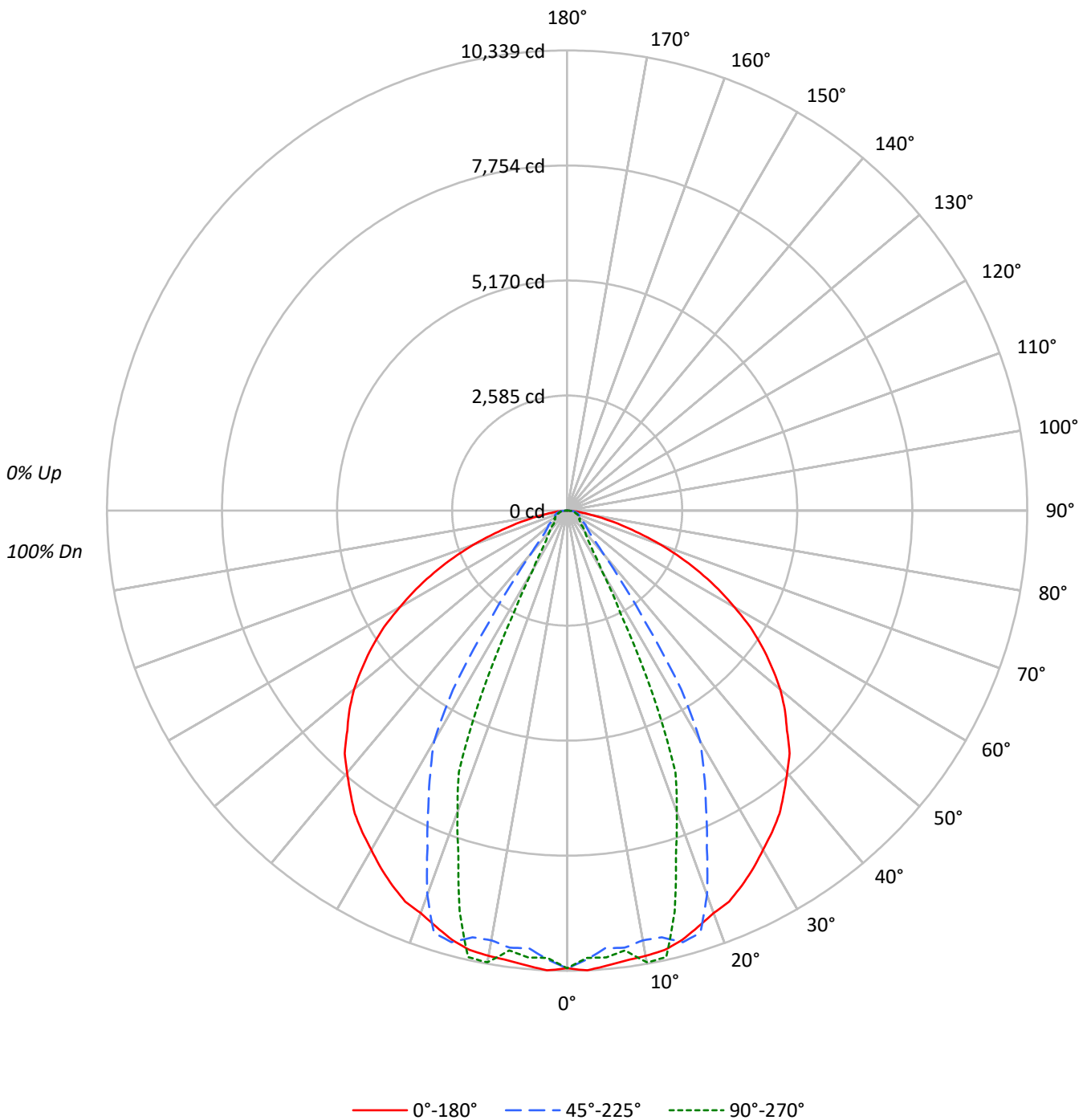
Lumens per Lamp: N/A  
Luminaire Lumens: 13824.0 lumens  
Efficiency: N/A  
Efficacy: 150.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 91.8  
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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

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

	0°	45°	90°
0°	13836	13836	13836
5°	13859	13331	13612
10°	13879	13395	14082
15°	13910	13982	12995
20°	13778	13151	10315
25°	13798	10963	6738
30°	13674	9288	2420
35°	13660	5031	1361
40°	13505	2193	1066
45°	13296	1356	836
50°	13089	1181	789
55°	12575	1024	772
60°	11667	918	830
65°	10487	1037	907
70°	8795	1115	935
75°	6575	1272	1012
80°	4129	1477	1155
85°	2749	1851	1690



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	953.1	6.9
10°-20°	2691.3	19.5
20°-30°	3295.6	23.8
30°-40°	2588.0	18.7
40°-50°	1919.2	13.9
50°-60°	1168.4	8.5
60°-70°	699.9	5.1
70°-80°	384.0	2.8
80°-90°	124.5	0.9
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°	6940.0	50.2
0°-40°	9528.0	68.9
0°-60°	12615.6	91.3
0°-90°	13824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13824.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10283	10283	10283	10283	10283	
5°	10261	9982	9870	9979	10078	976
15°	9986	9712	10038	9632	9329	2811
25°	9294	9323	7385	5792	4539	4278
35°	8316	7565	3063	1025	829	5189
45°	6988	5017	712	540	439	5404
55°	5360	1383	437	369	329	4770
65°	3294	408	326	306	285	3254
75°	1265	257	245	213	195	1369
85°	178	140	120	110	110	217
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10283.0	10283.0	10283.0	10283.0	10283.0
2.5°	10339.1	10199.8	10093.1	10033.5	10057.8
5°	10260.8	9981.5	9869.9	9978.7	10077.9
7.5°	10192.9	9777.8	9903.9	9913.6	9965.6
10°	10158.2	9758.4	9804.1	10019.6	10307.2
12.5°	10112.5	9803.4	9819.4	10113.2	10275.4
15°	9985.7	9711.9	10037.7	9632.2	9329.4
17.5°	9800.6	9498.5	9946.2	8533.1	8121.5
20°	9622.5	9266.3	9184.6	7601.0	7203.9
22.5°	9507.5	9231.0	8204.6	6772.9	6362.6
25°	9294.0	9323.2	7384.8	5792.2	4538.6
27.5°	9059.1	9106.2	6659.9	3862.9	2600.2
30°	8801.3	8855.4	5978.0	2282.8	1557.9
32.5°	8567.8	8262.8	4774.2	1424.1	1083.2
35°	8316.2	7565.0	3063.1	1025.0	828.8
37.5°	7999.5	6831.8	1939.1	810.8	695.8
40°	7689.0	6173.4	1248.8	692.3	607.1
42.5°	7398.6	5630.8	908.5	605.0	548.2
45°	6987.7	5017.4	712.4	539.9	439.4
47.5°	6632.2	4298.1	623.0	456.7	379.1
50°	6253.1	3286.3	564.1	406.1	377.0
52.5°	5803.3	2149.7	521.1	388.8	352.1
55°	5360.5	1382.6	436.6	369.4	329.2
57.5°	4882.3	876.7	385.3	358.3	343.7
60°	4335.5	591.1	341.0	339.6	308.4
62.5°	3829.6	485.8	329.2	325.7	291.8
65°	3293.9	407.5	325.7	306.3	284.8
67.5°	2758.9	349.3	294.5	280.0	261.3
70°	2235.7	319.5	283.4	277.2	237.7
72.5°	1697.9	263.3	251.6	234.9	197.5
75°	1264.8	257.1	244.6	212.8	194.7
77.5°	855.9	237.0	222.5	190.6	176.0
80°	532.9	217.6	190.6	167.0	149.0
82.5°	316.7	181.6	156.6	137.9	126.1
85°	178.1	140.0	119.9	110.2	109.5
87.5°	38.1	50.6	40.2	38.1	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)