

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-CL-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 (P23768)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-15HE-N-CL-UNV-L750-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

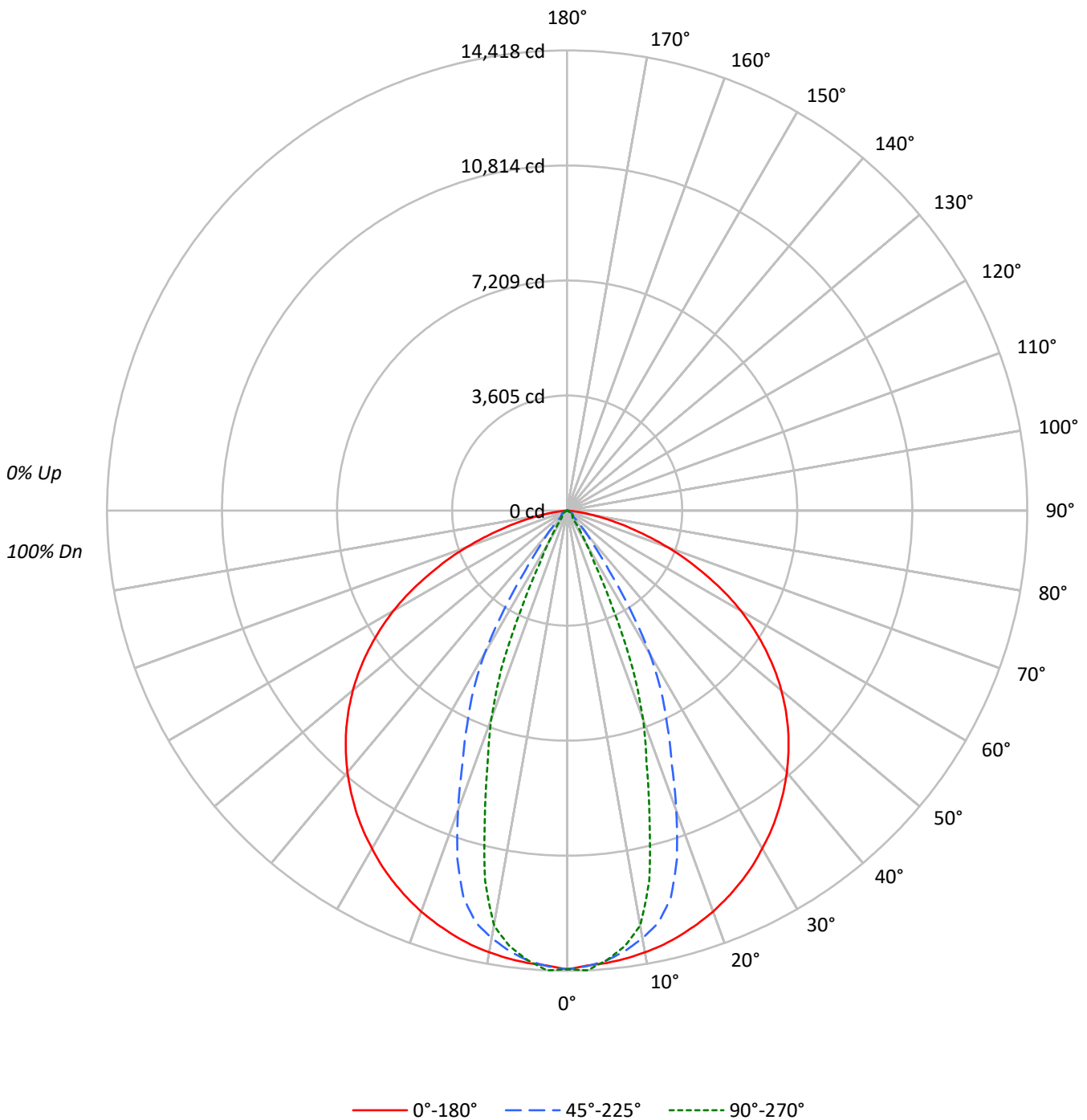
Lumens per Lamp: N/A  
Luminaire Lumens: 15369.0 lumens  
Efficiency: N/A  
Efficacy: 167.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	19335	19335	19335
5°	19216	19116	19102
10°	19204	18588	18039
15°	19182	17479	13870
20°	19144	14304	9949
25°	19084	11021	5056
30°	18994	8043	1839
35°	18926	3694	640
40°	18810	1676	442
45°	18642	625	448
50°	18345	454	471
55°	17802	478	359
60°	16917	510	317
65°	15342	389	258
70°	13154	280	237
75°	10054	248	226
80°	6290	233	245
85°	1987	272	329



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1337.9	8.7
10°-20°	3370.2	21.9
20°-30°	3670.3	23.9
30°-40°	2745.6	17.9
40°-50°	1974.1	12.8
50°-60°	1212.4	7.9
60°-70°	697.6	4.5
70°-80°	311.4	2.0
80°-90°	49.4	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°	8378.4	54.5
0°-40°	11124.0	72.4
0°-60°	14310.6	93.1
0°-90°	15369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15369.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14370	14370	14370	14370	14370	
5°	14228	14295	14154	14167	14143	###
15°	13770	13506	12548	10777	9958	3887
25°	12855	11933	7424	4763	3406	5926
35°	11522	8264	2249	661	390	7208
45°	9797	4643	329	243	235	7547
55°	7589	965	204	197	153	6766
65°	4819	106	122	102	81	4770
75°	1934	64	48	49	43	2099
85°	129	12	18	23	21	256
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14370.4	14370.4	14370.4	14370.4	14370.4
2.5°	14270.4	14363.8	14285.1	14355.7	14418.2
5°	14227.8	14294.7	14153.5	14166.7	14143.2
7.5°	14154.2	14170.4	13915.2	13816.7	13768.9
10°	14055.7	14012.3	13604.9	13370.3	13203.4
12.5°	13931.4	13788.0	13218.8	12381.3	11882.0
15°	13770.4	13506.4	12548.2	10776.7	9957.5
17.5°	13578.4	13212.2	11437.8	8981.7	8272.8
20°	13370.3	12887.2	9989.9	7636.7	6948.4
22.5°	13124.7	12471.7	8561.8	6351.3	5406.4
25°	12854.8	11932.7	7423.5	4762.9	3405.5
27.5°	12563.6	11221.6	6369.7	2920.9	1841.3
30°	12225.4	10356.1	5176.9	1639.1	1183.9
32.5°	11895.2	9347.2	3698.1	1092.0	756.7
35°	11522.4	8264.0	2248.7	661.1	389.7
37.5°	11127.5	7279.3	1407.5	359.6	269.1
40°	10709.1	6345.4	954.5	255.2	251.5
42.5°	10262.0	5500.5	597.8	242.7	250.8
45°	9797.2	4643.1	328.7	243.4	235.3
47.5°	9292.8	3712.1	229.4	230.2	229.4
50°	8764.0	2662.7	216.9	227.2	225.0
52.5°	8194.1	1653.1	217.7	222.1	199.3
55°	7588.9	964.8	203.7	197.1	153.0
57.5°	6952.8	601.5	199.3	162.5	137.5
60°	6286.6	317.7	189.7	146.3	117.7
62.5°	5577.0	156.6	152.2	125.0	96.3
65°	4818.8	105.9	122.1	101.5	80.9
67.5°	4086.4	95.6	91.9	83.1	70.6
70°	3343.7	87.5	71.3	72.8	60.3
72.5°	2614.9	79.4	57.4	62.5	50.7
75°	1934.0	64.0	47.8	49.3	43.4
77.5°	1345.7	50.0	37.5	41.9	40.4
80°	811.8	31.6	30.1	34.6	31.6
82.5°	393.4	20.6	23.5	27.2	25.0
85°	128.7	12.5	17.6	22.8	21.3
87.5°	16.2	7.4	14.7	19.9	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)