

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-CLI-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 (P23769)  
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-CLI-UNV-L750-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

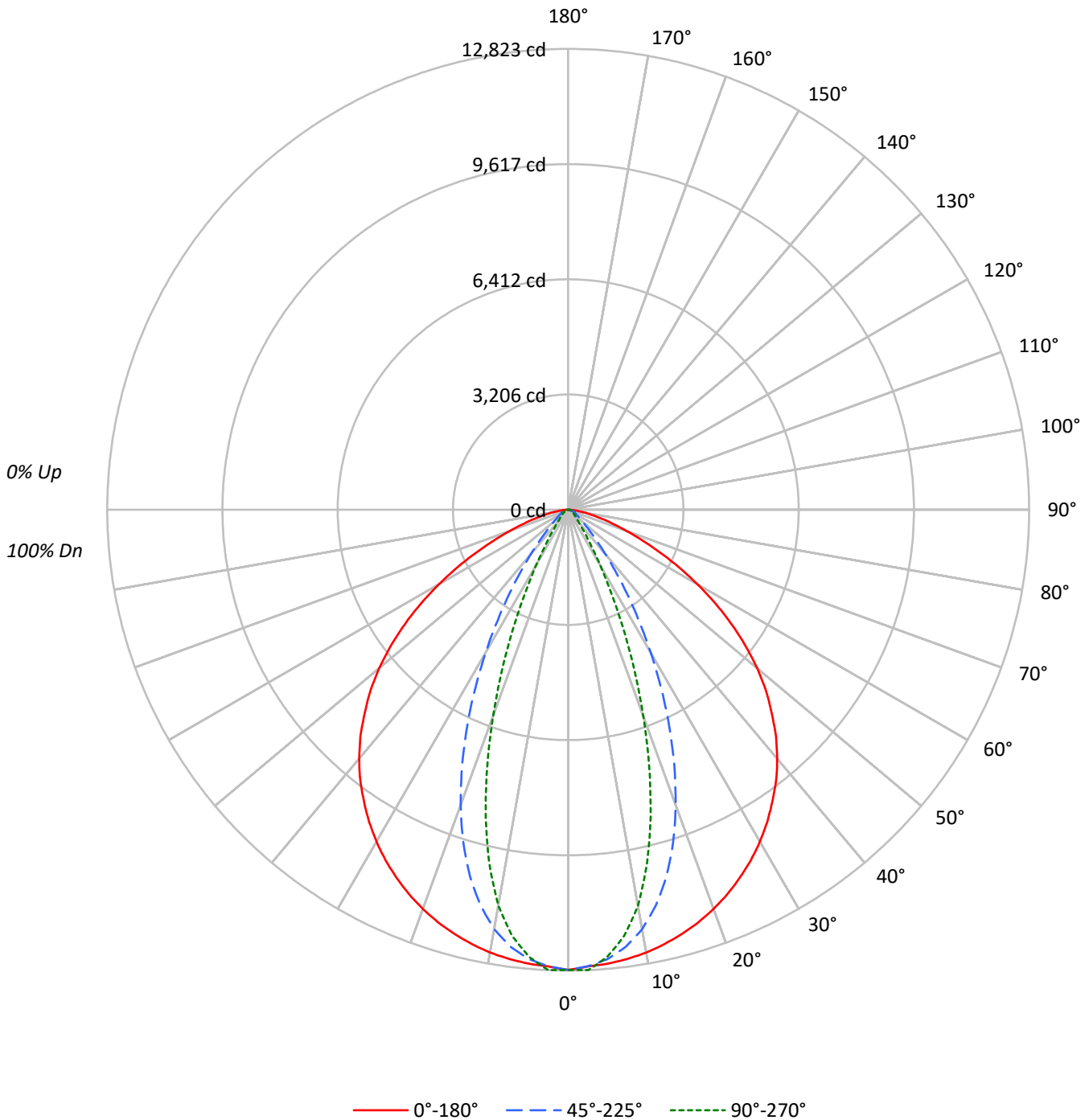
Lumens per Lamp: N/A  
Luminaire Lumens: 14019.0 lumens  
Efficiency: N/A  
Efficacy: 152.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	17229	17229	17229
5°	17126	16956	16866
10°	17097	16188	15275
15°	17028	14714	12337
20°	16926	12521	8744
25°	16775	9873	5283
30°	16571	7125	2715
35°	16272	4658	1356
40°	15886	2798	791
45°	15226	1671	592
50°	14361	1093	497
55°	12997	829	434
60°	11169	706	396
65°	8984	644	374
70°	6769	690	371
75°	4979	656	382
80°	3643	653	418
85°	2728	792	542



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1179.3	8.4
10°-20°	2933.9	20.9
20°-30°	3249.7	23.2
30°-40°	2603.6	18.6
40°-50°	1858.6	13.3
50°-60°	1193.8	8.5
60°-70°	647.0	4.6
70°-80°	276.5	2.0
80°-90°	76.7	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°	7362.8	52.5
0°-40°	9966.4	71.1
0°-60°	13018.8	92.9
0°-90°	14019.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14019.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12805	12805	12805	12805	12805	
5°	12680	12727	12554	12514	12488	###
15°	12225	11842	10563	9335	8856	3449
25°	11299	9963	6650	4333	3558	5205
35°	9906	7166	2836	1144	826	6194
45°	8002	4136	878	374	311	6168
55°	5541	1849	353	217	185	4938
65°	2822	759	202	140	117	2826
75°	958	278	126	88	74	1064
85°	177	74	51	42	35	216
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12805.3	12805.3	12805.3	12805.3	12805.3
2.5°	12721.0	12800.6	12715.0	12768.2	12822.9
5°	12679.9	12727.1	12553.8	12514.0	12487.7
7.5°	12608.4	12594.9	12269.1	12058.0	11956.2
10°	12514.0	12404.7	11848.3	11384.3	11180.6
12.5°	12379.1	12153.8	11278.4	10463.6	10118.3
15°	12224.6	11842.2	10563.4	9335.2	8856.4
17.5°	12039.8	11478.0	9708.9	8125.2	7493.3
20°	11821.3	11038.3	8744.4	6839.7	6106.6
22.5°	11577.1	10531.1	7711.8	5558.2	4771.8
25°	11299.3	9963.2	6650.2	4332.7	3558.5
27.5°	10999.1	9332.5	5594.7	3237.4	2531.3
30°	10665.9	8650.0	4586.3	2334.3	1747.5
32.5°	10302.4	7924.3	3649.5	1641.6	1195.1
35°	9906.5	7165.5	2836.1	1143.9	825.5
37.5°	9501.2	6391.2	2142.1	808.7	592.2
40°	9044.5	5619.6	1593.1	592.2	450.5
42.5°	8554.2	4862.9	1179.0	455.9	364.9
45°	8001.8	4136.5	878.2	373.7	310.9
47.5°	7466.3	3459.3	667.0	318.3	270.5
50°	6860.6	2848.3	522.0	277.9	237.4
52.5°	6217.9	2310.7	423.6	244.8	209.1
55°	5540.7	1849.4	353.4	217.2	184.8
57.5°	4854.8	1464.9	302.2	193.6	164.6
60°	4150.6	1171.5	262.4	173.3	147.0
62.5°	3463.4	936.8	229.3	155.8	131.5
65°	2822.0	759.4	202.3	139.6	117.4
67.5°	2229.1	600.3	188.8	125.5	105.9
70°	1720.6	467.4	175.4	112.0	94.4
72.5°	1303.7	358.8	155.1	99.8	83.6
75°	957.7	277.9	126.1	87.7	73.5
77.5°	685.3	213.8	102.5	76.2	63.4
80°	470.1	159.2	84.3	65.4	54.0
82.5°	305.5	112.6	68.1	54.0	44.5
85°	176.7	73.5	51.3	42.5	35.1
87.5°	76.2	40.5	35.1	31.7	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)