

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-W-AI-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 (P23765)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-15HE-W-AI-UNV-L750-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

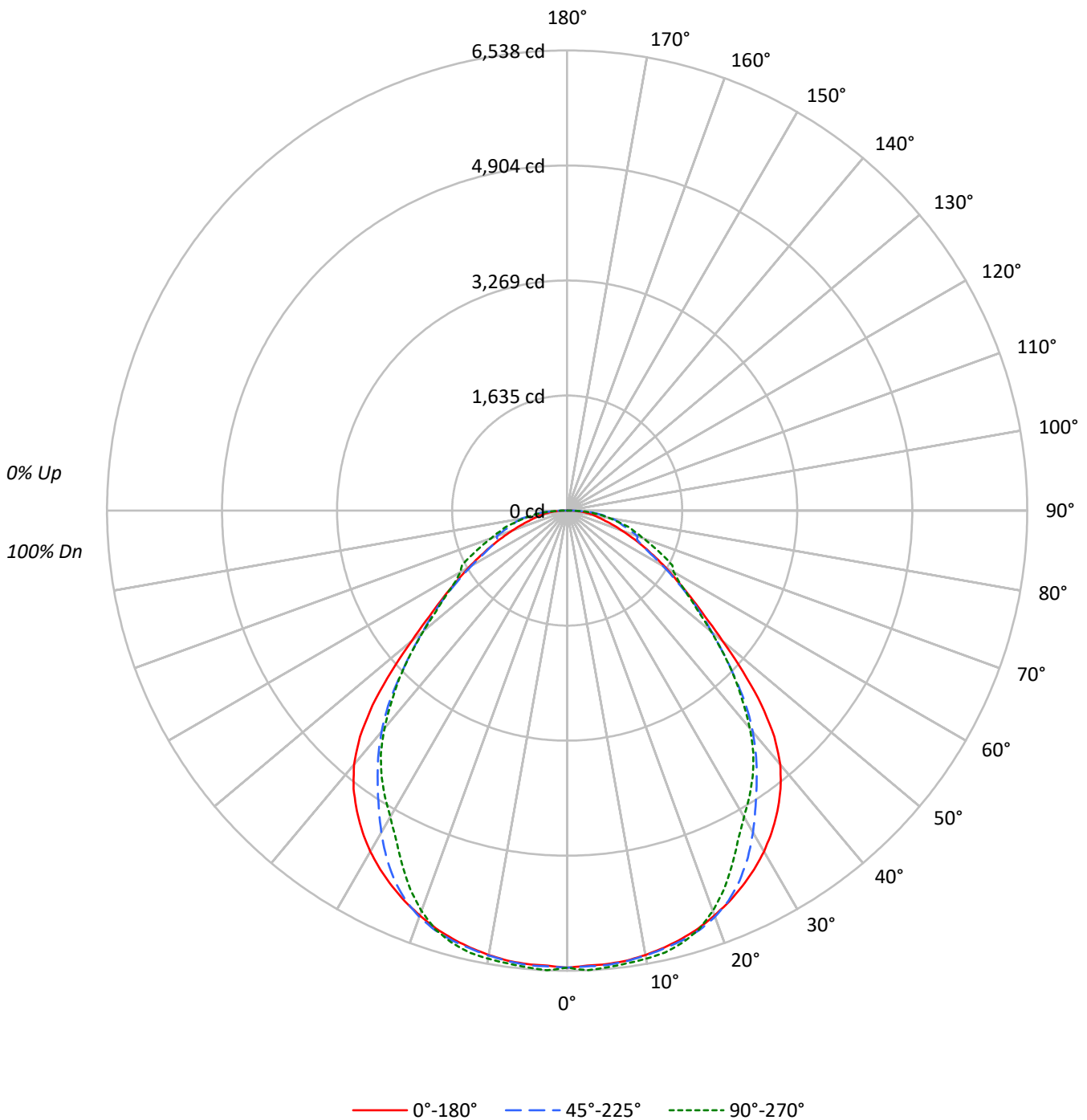
Lumens per Lamp: N/A  
Luminaire Lumens: 15032.0 lumens  
Efficiency: N/A  
Efficacy: 163.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87					85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57					55				
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50					48				
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45					43				
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40					38				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36					34				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30					29				

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

	0°	45°	90°
0°	8738	8738	8738
5°	8738	8757	8799
10°	8759	8770	8835
15°	8773	8806	8849
20°	8764	8797	8666
25°	8742	8611	8236
30°	8690	8205	7805
35°	8559	7711	7551
40°	8273	7210	7091
45°	7436	6438	6415
50°	6031	5608	5569
55°	5008	4915	4913
60°	4336	4209	4706
65°	3758	3734	4743
70°	3240	4189	4522
75°	2905	4294	4714
80°	3020	5054	4730
85°	3429	5825	5403



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	618.3	4.1
10°-20°	1785.8	11.9
20°-30°	2652.3	17.6
30°-40°	3011.1	20.0
40°-50°	2691.8	17.9
50°-60°	1861.1	12.4
60°-70°	1228.1	8.2
70°-80°	828.5	5.5
80°-90°	354.9	2.4
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°	5056.5	33.6
0°-40°	8067.6	53.7
0°-60°	12620.6	84.0
0°-90°	15032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15032.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6494	6494	6494	6494	6494	
5°	6469	6509	6483	6510	6515	616
15°	6298	6328	6322	6357	6352	1778
25°	5888	5944	5800	5627	5548	2713
35°	5211	5101	4695	4626	4597	3250
45°	3908	3577	3384	3409	3371	2972
55°	2135	1949	2095	2066	2094	1939
65°	1180	1048	1173	1372	1490	1178
75°	559	703	826	882	907	610
85°	222	309	377	380	350	232
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6494.3	6494.3	6494.3	6494.3	6494.3
2.5°	6472.2	6512.7	6482.5	6510.5	6537.7
5°	6469.3	6509.0	6483.3	6509.7	6514.9
7.5°	6450.9	6487.7	6457.5	6483.3	6489.1
10°	6411.2	6454.6	6419.3	6459.0	6466.3
12.5°	6359.7	6403.8	6372.9	6427.4	6430.3
15°	6297.9	6328.1	6321.5	6356.8	6352.4
17.5°	6220.0	6254.5	6249.4	6258.2	6237.6
20°	6120.7	6159.7	6143.5	6103.1	6052.3
22.5°	6014.1	6061.1	5997.2	5894.9	5823.6
25°	5888.3	5944.2	5800.1	5627.3	5547.8
27.5°	5749.3	5799.3	5559.6	5347.8	5265.4
30°	5593.4	5614.8	5280.9	5079.4	5023.5
32.5°	5413.3	5382.4	4983.0	4849.9	4817.6
35°	5211.0	5101.4	4694.8	4626.4	4597.0
37.5°	4983.0	4782.3	4410.2	4378.6	4347.7
40°	4710.2	4413.9	4105.0	4084.4	4037.3
42.5°	4358.0	4013.1	3766.0	3741.7	3699.8
45°	3907.9	3577.0	3383.6	3409.3	3371.1
47.5°	3390.2	3139.4	3016.6	3087.2	3016.6
50°	2881.3	2712.9	2679.1	2743.0	2660.7
52.5°	2464.3	2312.8	2382.7	2393.7	2344.4
55°	2134.9	1948.8	2095.1	2065.7	2094.4
57.5°	1848.1	1639.9	1820.1	1786.3	1884.8
60°	1611.3	1377.4	1564.2	1556.8	1748.8
62.5°	1378.9	1192.1	1342.1	1450.2	1686.3
65°	1180.3	1047.9	1173.0	1371.5	1489.9
67.5°	989.8	939.8	1072.9	1183.3	1312.7
70°	823.6	849.4	1064.9	1044.3	1149.4
72.5°	683.9	771.4	939.8	943.5	1017.8
75°	558.9	703.0	825.9	882.5	906.7
77.5°	464.8	637.6	745.7	765.5	742.0
80°	389.8	561.8	652.3	643.5	610.4
82.5°	314.7	425.8	514.0	522.1	483.2
85°	222.1	308.9	377.3	379.5	350.0
87.5°	119.1	190.5	228.7	235.3	217.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)