

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-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 (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-L735-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

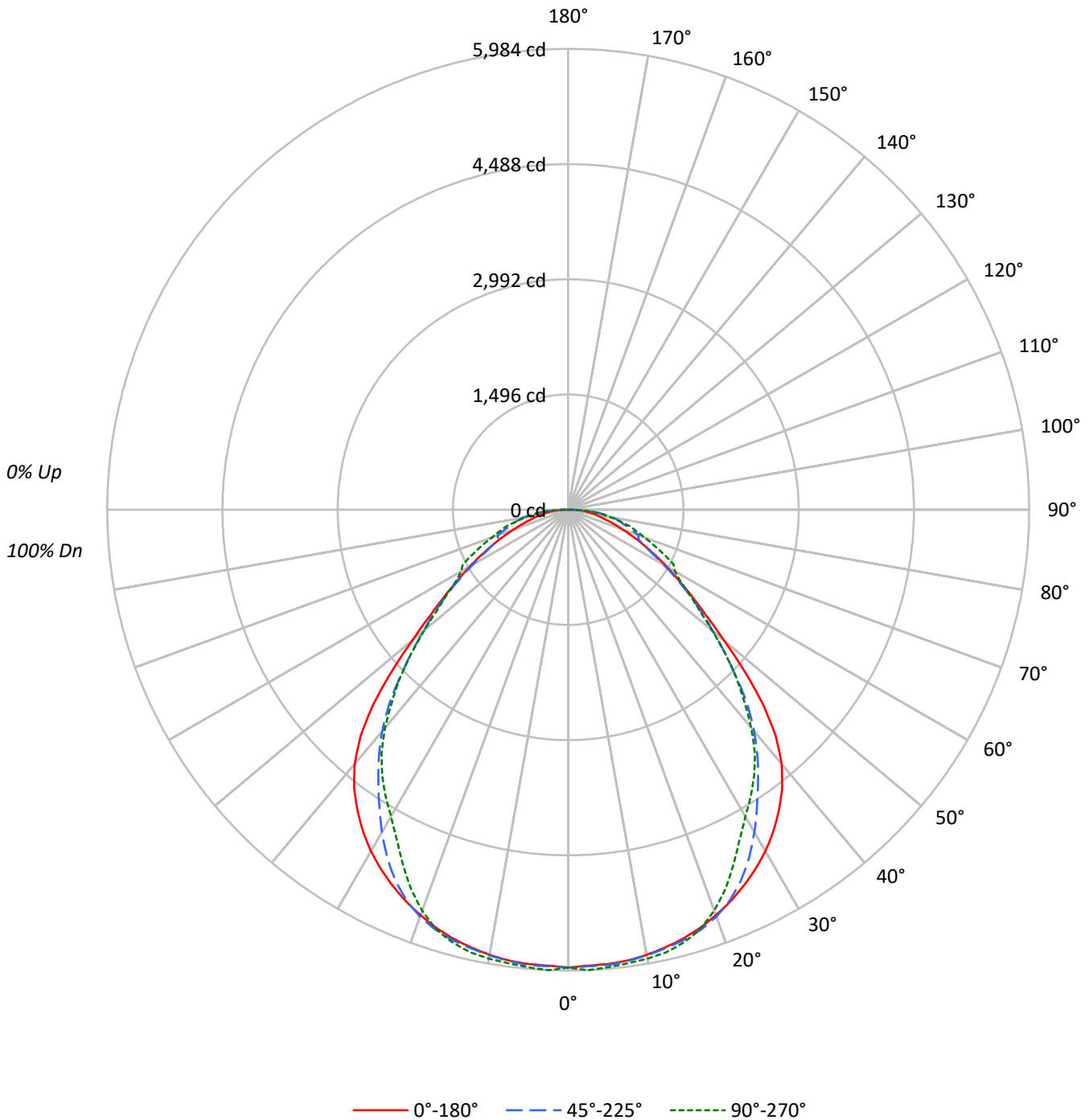
Lumens per Lamp: N/A  
Luminaire Lumens: 13760.0 lumens  
Efficiency: N/A  
Efficacy: 149.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	7999	7999	7999
5°	7998	8015	8055
10°	8018	8028	8087
15°	8030	8060	8100
20°	8022	8052	7933
25°	8002	7882	7539
30°	7955	7510	7144
35°	7835	7059	6912
40°	7573	6600	6491
45°	6807	5893	5872
50°	5521	5133	5098
55°	4584	4499	4497
60°	3969	3853	4308
65°	3440	3418	4342
70°	2966	3834	4139
75°	2660	3930	4315
80°	2765	4627	4329
85°	3138	5331	4946



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	566.0	4.1
10°-20°	1634.7	11.9
20°-30°	2427.9	17.6
30°-40°	2756.3	20.0
40°-50°	2464.0	17.9
50°-60°	1703.6	12.4
60°-70°	1124.2	8.2
70°-80°	758.4	5.5
80°-90°	324.8	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°	4628.6	33.6
0°-40°	7384.9	53.7
0°-60°	11552.6	84.0
0°-90°	13760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13760.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5945	5945	5945	5945	5945	
5°	5922	5958	5935	5959	5964	564
15°	5765	5793	5787	5819	5815	1627
25°	5390	5441	5309	5151	5078	2484
35°	4770	4670	4298	4235	4208	2975
45°	3577	3274	3097	3121	3086	2720
55°	1954	1784	1918	1891	1917	1775
65°	1080	959	1074	1256	1364	1078
75°	512	644	756	808	830	559
85°	203	283	345	347	320	212
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5944.7	5944.7	5944.7	5944.7	5944.7
2.5°	5924.6	5961.6	5934.0	5959.6	5984.5
5°	5921.9	5958.2	5934.6	5958.9	5963.6
7.5°	5905.0	5938.7	5911.1	5934.6	5940.0
10°	5868.7	5908.4	5876.1	5912.4	5919.2
12.5°	5821.6	5861.9	5833.7	5883.5	5886.2
15°	5765.0	5792.6	5786.6	5818.9	5814.8
17.5°	5693.7	5725.3	5720.6	5728.7	5709.8
20°	5602.8	5638.5	5623.6	5586.6	5540.2
22.5°	5505.2	5548.2	5489.7	5396.1	5330.8
25°	5390.1	5441.2	5309.3	5151.1	5078.4
27.5°	5262.8	5308.6	5089.1	4895.3	4819.9
30°	5120.1	5139.6	4834.0	4649.6	4598.4
32.5°	4955.2	4926.9	4561.4	4439.5	4409.9
35°	4770.1	4669.8	4297.5	4234.9	4208.0
37.5°	4561.4	4377.6	4037.0	4008.0	3979.8
40°	4311.6	4040.4	3757.6	3738.8	3695.7
42.5°	3989.2	3673.5	3447.3	3425.1	3386.7
45°	3577.2	3274.3	3097.2	3120.8	3085.8
47.5°	3103.3	2873.8	2761.3	2826.0	2761.3
50°	2637.5	2483.3	2452.4	2510.9	2435.5
52.5°	2255.8	2117.1	2181.1	2191.2	2146.1
55°	1954.2	1783.9	1917.9	1890.9	1917.2
57.5°	1691.7	1501.2	1666.1	1635.1	1725.3
60°	1474.9	1260.8	1431.8	1425.1	1600.8
62.5°	1262.2	1091.2	1228.5	1327.5	1543.6
65°	1080.4	959.3	1073.7	1255.5	1363.8
67.5°	906.1	860.3	982.2	1083.1	1201.6
70°	753.9	777.5	974.7	955.9	1052.2
72.5°	626.0	706.2	860.3	863.7	931.7
75°	511.6	643.5	756.0	807.8	830.0
77.5°	425.4	583.6	682.6	700.8	679.2
80°	356.8	514.3	597.1	589.0	558.7
82.5°	288.1	389.8	470.5	477.9	442.3
85°	203.3	282.7	345.3	347.4	320.4
87.5°	109.1	174.4	209.4	215.4	199.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)