

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-LD5-48HE-W-CLI-UNV-L735-ED4-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 (P23766)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-48HE-W-CLI-UNV-L735-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

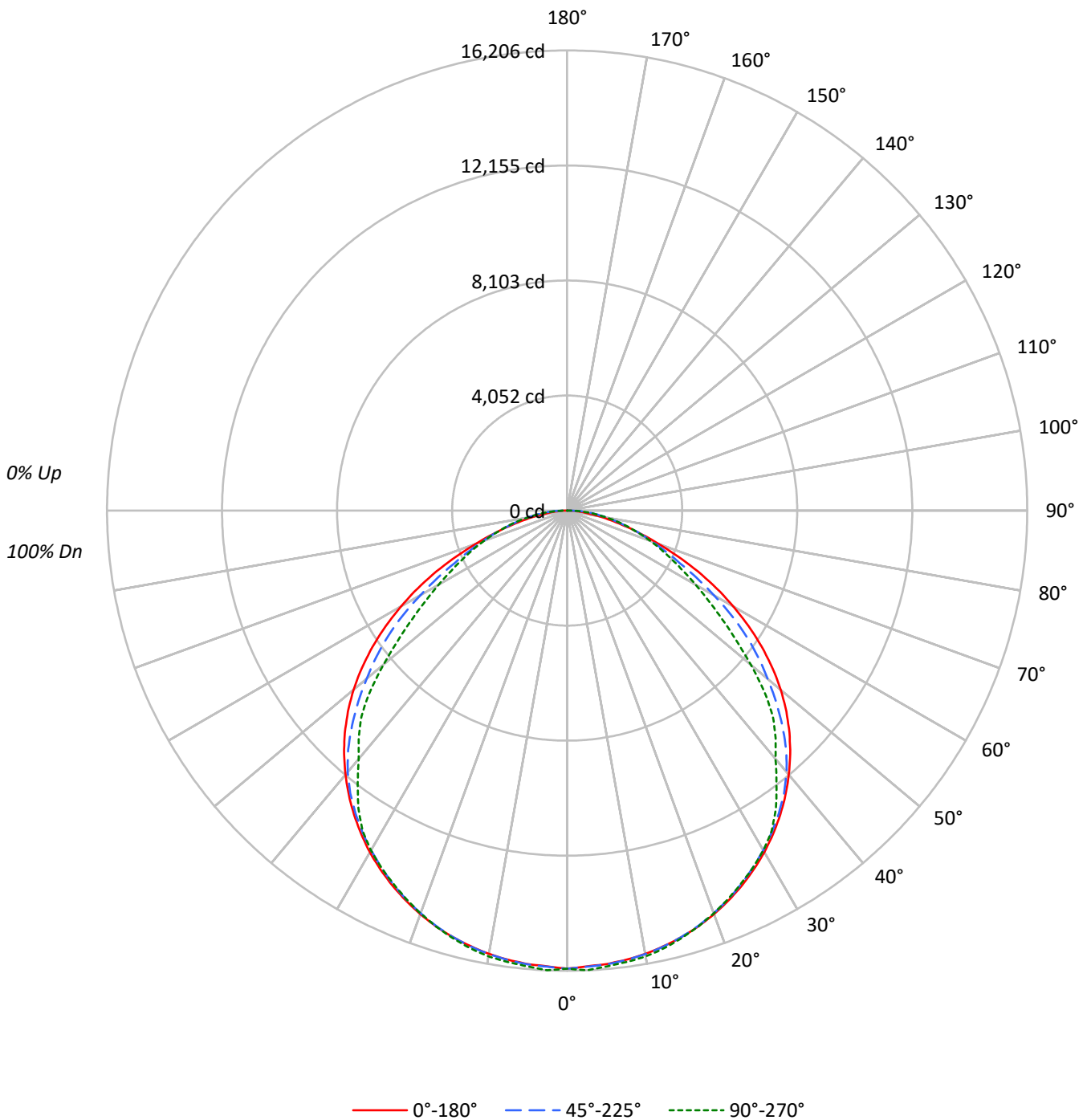
Lumens per Lamp: N/A  
Luminaire Lumens: 43342.0 lumens  
Efficiency: N/A  
Efficacy: 151.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 286.2  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	21706	21706	21706
5°	21647	21663	21760
10°	21660	21670	21784
15°	21662	21659	21711
20°	21657	21607	21612
25°	21624	21543	21517
30°	21588	21459	21471
35°	21488	21354	21052
40°	21334	21117	20052
45°	21064	20389	19498
50°	20557	19304	17658
55°	19621	18054	15614
60°	18209	16108	14081
65°	16185	13947	12948
70°	13432	12464	12205
75°	10863	11407	11548
80°	8629	10909	10864
85°	6757	11720	11182



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1529.9	3.5
10°-20°	4400.6	10.2
20°-30°	6710.1	15.5
30°-40°	8118.2	18.7
40°-50°	8223.1	19.0
50°-60°	6796.5	15.7
60°-70°	4489.0	10.4
70°-80°	2340.7	5.4
80°-90°	733.8	1.7
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°	12640.6	29.2
0°-40°	20758.8	47.9
0°-60°	35778.4	82.5
0°-90°	43342.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	43342.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16132	16132	16132	16132	16132	
5°	16028	16124	16039	16109	16111	###
15°	15551	15631	15549	15598	15586	4391
25°	14565	14624	14511	14548	14494	6716
35°	13082	13099	13001	12983	12817	8183
45°	11070	11041	10715	10382	10247	8524
55°	8364	8240	7696	6949	6656	7455
65°	5084	4936	4381	4096	4067	5021
75°	2090	2126	2194	2223	2221	2276
85°	438	564	759	753	724	531
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	16132.1	16132.1	16132.1	16132.1	16132.1
2.5°	16064.4	16159.3	16079.8	16149.6	16205.7
5°	16027.6	16124.4	16039.2	16108.9	16110.8
7.5°	15955.9	16052.7	15965.6	16035.3	16033.4
10°	15853.3	15944.3	15861.0	15944.3	15944.3
12.5°	15713.8	15802.9	15721.6	15799.0	15787.4
15°	15551.1	15630.6	15549.2	15597.6	15586.0
17.5°	15359.4	15431.1	15340.1	15380.7	15357.5
20°	15125.1	15190.9	15090.2	15142.5	15094.1
22.5°	14861.7	14923.7	14821.0	14859.8	14805.5
25°	14565.4	14623.5	14511.2	14548.0	14493.7
27.5°	14245.9	14298.1	14172.3	14216.8	14174.2
30°	13895.3	13920.5	13812.1	13870.2	13819.8
32.5°	13504.1	13519.6	13424.7	13477.0	13391.8
35°	13081.9	13099.4	13000.6	12983.2	12816.6
37.5°	12630.7	12638.5	12545.5	12388.6	12113.6
40°	12146.6	12142.7	12022.6	11660.5	11416.4
42.5°	11629.5	11627.5	11416.4	11003.9	10864.5
45°	11069.8	11040.7	10715.4	10382.3	10246.7
47.5°	10469.4	10438.4	9983.3	9718.0	9410.1
50°	9820.7	9766.4	9222.2	8860.1	8436.0
52.5°	9121.5	9038.3	8484.4	7899.5	7498.6
55°	8364.3	8240.4	7696.2	6948.6	6656.2
57.5°	7576.1	7392.1	6863.4	6135.2	5897.0
60°	6766.6	6561.3	5986.1	5387.7	5232.8
62.5°	5933.8	5730.5	5143.7	4692.5	4607.2
65°	5083.7	4936.5	4380.7	4096.0	4066.9
67.5°	4212.2	4159.9	3735.8	3590.5	3578.9
70°	3414.3	3404.6	3168.3	3094.7	3102.5
72.5°	2728.7	2717.1	2682.2	2645.4	2647.4
75°	2089.6	2126.4	2194.2	2223.3	2221.3
77.5°	1559.0	1634.5	1777.8	1835.9	1826.2
80°	1113.6	1225.9	1407.9	1462.2	1402.1
82.5°	741.7	859.9	1074.8	1082.6	1034.2
85°	437.7	563.6	759.2	753.3	724.3
87.5°	216.9	338.9	455.1	435.7	416.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)