

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-LD5-24HE-W-CL-UNV-L835-ED2-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 (P23762)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-24HE-W-CL-UNV-L835-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

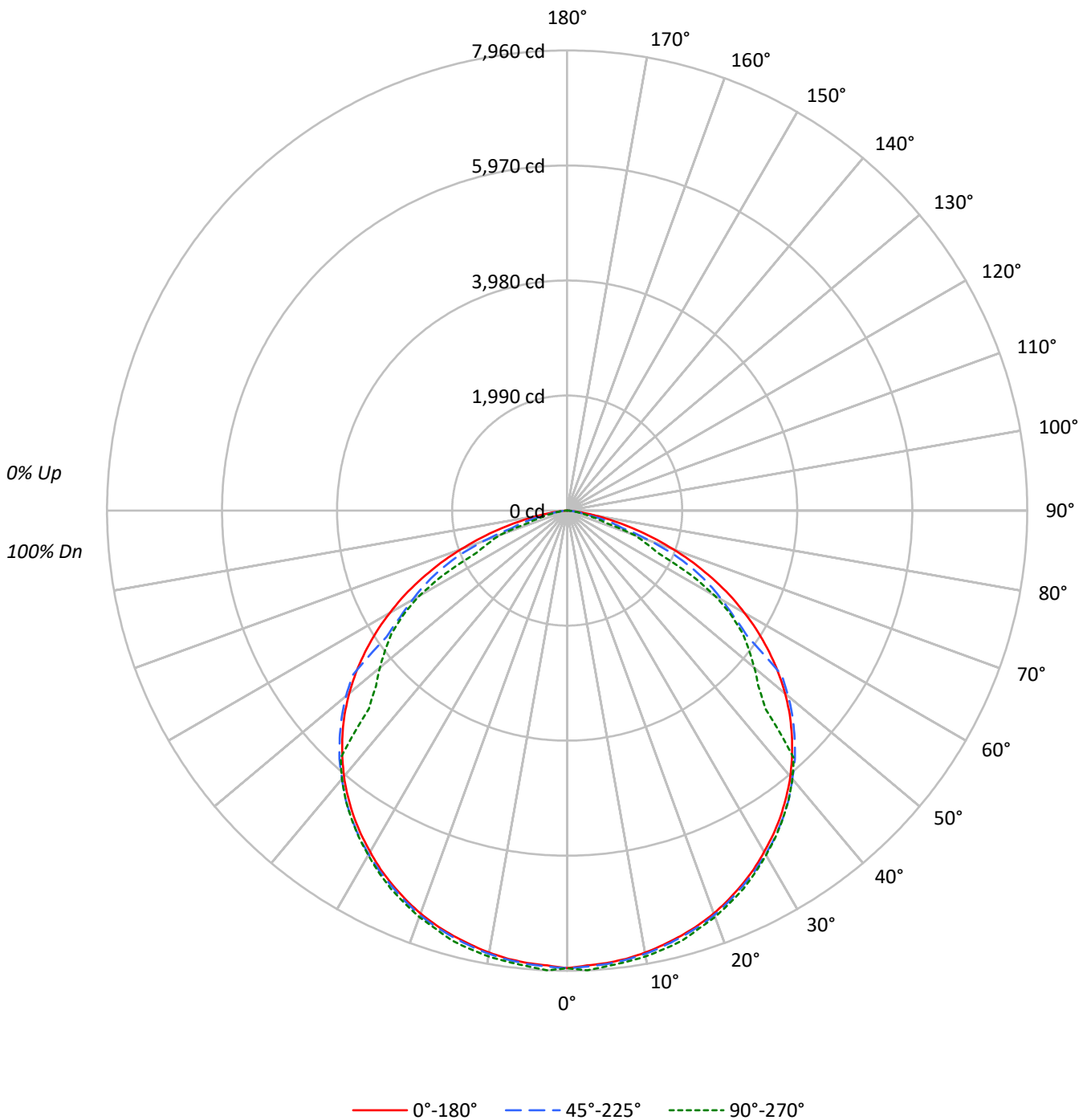
Lumens per Lamp: N/A  
Luminaire Lumens: 21395.0 lumens  
Efficiency: N/A  
Efficacy: 146.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 146.3  
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	10648	10648	10648
5°	10609	10633	10685
10°	10608	10639	10700
15°	10608	10640	10726
20°	10621	10661	10711
25°	10609	10649	10713
30°	10589	10666	10691
35°	10584	10680	10688
40°	10551	10644	10644
45°	10460	10587	9224
50°	10299	10454	8851
55°	10007	8949	8693
60°	9537	8318	7942
65°	8820	7721	5500
70°	7680	6008	4901
75°	6066	4033	2635
80°	3905	1926	1643
85°	1607	1175	1294



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	750.7	3.5
10°-20°	2163.8	10.1
20°-30°	3317.4	15.5
30°-40°	4066.0	19.0
40°-50°	4180.2	19.5
50°-60°	3567.6	16.7
60°-70°	2358.6	11.0
70°-80°	873.9	4.1
80°-90°	116.9	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°	6231.9	29.1
0°-40°	10297.9	48.1
0°-60°	18045.7	84.3
0°-90°	21395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21395.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7914	7914	7914	7914	7914	
5°	7855	7910	7872	7903	7911	747
15°	7615	7662	7638	7696	7700	2151
25°	7146	7184	7173	7238	7216	3295
35°	6444	6488	6502	6543	6507	4030
45°	5497	5552	5564	5555	4848	4236
55°	4266	4344	3815	3704	3706	3806
65°	2770	2793	2425	1995	1728	2732
75°	1167	1022	776	521	507	1252
85°	104	74	76	83	84	172
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7913.9	7913.9	7913.9	7913.9	7913.9
2.5°	7875.4	7924.5	7895.6	7932.2	7960.2
5°	7855.2	7910.1	7872.5	7903.3	7911.0
7.5°	7820.5	7871.5	7836.8	7877.3	7871.5
10°	7764.6	7810.8	7786.7	7829.1	7832.0
12.5°	7693.3	7739.5	7717.4	7769.4	7768.4
15°	7615.2	7661.5	7638.3	7696.2	7700.0
17.5°	7523.7	7566.1	7548.7	7601.7	7580.5
20°	7417.7	7454.3	7445.6	7495.7	7480.3
22.5°	7287.6	7325.2	7316.5	7374.3	7351.2
25°	7146.0	7183.5	7172.9	7237.5	7216.3
27.5°	6992.7	7028.4	7027.4	7088.1	7055.4
30°	6815.4	6862.7	6865.5	6919.5	6881.0
32.5°	6640.1	6684.4	6696.9	6736.4	6703.7
35°	6443.5	6487.8	6502.3	6542.7	6507.1
37.5°	6231.5	6269.1	6295.1	6325.0	6297.0
40°	6007.0	6040.7	6060.0	6096.6	6060.0
42.5°	5756.5	5804.6	5831.6	5857.6	5797.9
45°	5497.3	5552.2	5563.7	5555.1	4847.8
47.5°	5222.6	5282.4	5289.1	4612.7	4482.6
50°	4920.1	4995.2	4994.3	4262.9	4228.2
52.5°	4605.0	4677.2	4674.4	3989.2	3966.1
55°	4265.8	4343.8	3814.8	3704.0	3706.0
57.5°	3919.9	3975.8	3422.7	3427.5	3363.9
60°	3544.1	3597.1	3091.2	3061.3	2951.5
62.5°	3167.3	3189.5	2770.3	2624.8	2415.7
65°	2770.3	2793.4	2425.3	1994.6	1727.7
67.5°	2362.7	2385.8	2012.9	1483.9	1463.7
70°	1952.2	1763.4	1527.3	1236.3	1245.9
72.5°	1547.5	1354.8	998.3	957.8	691.9
75°	1166.9	1022.4	775.7	521.3	506.8
77.5°	812.3	704.4	415.3	355.6	332.4
80°	504.0	353.6	248.6	220.7	212.0
82.5°	255.4	203.3	134.9	134.9	134.9
85°	104.1	74.2	76.1	82.9	83.8
87.5°	22.2	29.9	36.6	37.6	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)