

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-AI-UNV-L735-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 (P23765)  
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-AI-UNV-L735-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

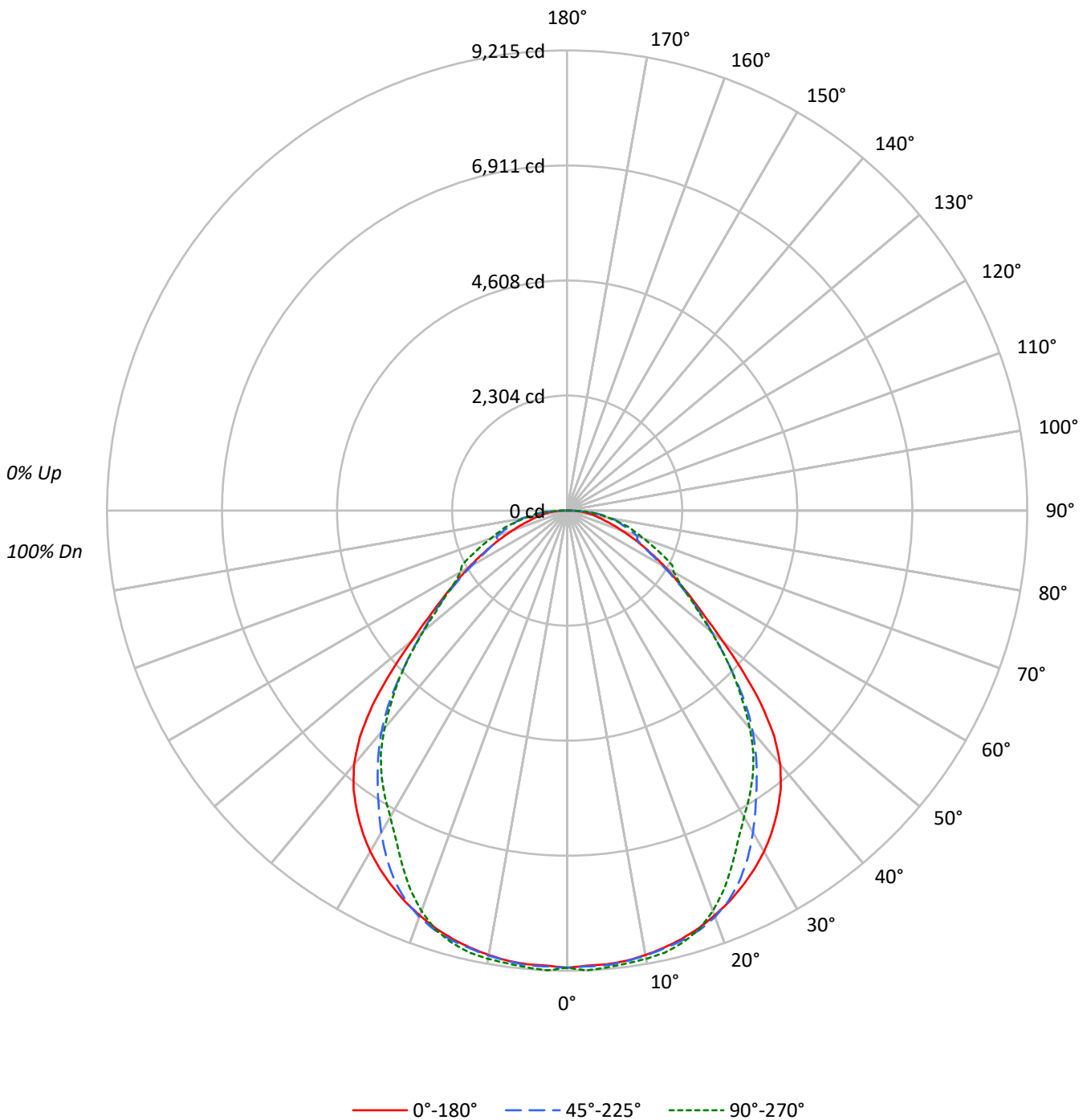
Lumens per Lamp: N/A  
Luminaire Lumens: 21188.0 lumens  
Efficiency: N/A  
Efficacy: 144.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	12316	12316	12316
5°	12316	12342	12403
10°	12346	12362	12453
15°	12365	12412	12472
20°	12353	12399	12215
25°	12322	12137	11609
30°	12249	11564	11001
35°	12065	10869	10643
40°	11661	10163	9995
45°	10481	9075	9041
50°	8501	7904	7850
55°	7059	6928	6925
60°	6111	5933	6633
65°	5297	5264	6686
70°	4567	5904	6373
75°	4095	6052	6644
80°	4257	7124	6666
85°	4832	8210	7617



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	871.6	4.1
10°-20°	2517.2	11.9
20°-30°	3738.5	17.6
30°-40°	4244.3	20.0
40°-50°	3794.2	17.9
50°-60°	2623.3	12.4
60°-70°	1731.0	8.2
70°-80°	1167.8	5.5
80°-90°	500.2	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°	7127.2	33.6
0°-40°	11371.5	53.7
0°-60°	17789.0	84.0
0°-90°	21188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21188.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9154	9154	9154	9154	9154	
5°	9119	9175	9138	9176	9183	868
15°	8877	8920	8910	8960	8954	2506
25°	8300	8378	8175	7932	7820	3824
35°	7345	7191	6617	6521	6480	4580
45°	5508	5042	4769	4806	4752	4189
55°	3009	2747	2953	2912	2952	2733
65°	1664	1477	1653	1933	2100	1660
75°	788	991	1164	1244	1278	860
85°	313	435	532	535	493	326
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9153.9	9153.9	9153.9	9153.9	9153.9
2.5°	9122.8	9179.8	9137.3	9176.7	9215.0
5°	9118.6	9174.6	9138.3	9175.6	9182.9
7.5°	9092.7	9144.5	9102.0	9138.3	9146.6
10°	9036.7	9097.9	9048.1	9104.1	9114.5
12.5°	8964.2	9026.4	8982.8	9059.5	9063.7
15°	8877.1	8919.6	8910.3	8960.0	8953.8
17.5°	8767.2	8816.0	8808.7	8821.1	8792.1
20°	8627.3	8682.2	8659.4	8602.4	8530.9
22.5°	8477.0	8543.3	8453.2	8309.1	8208.5
25°	8299.7	8378.5	8175.4	7931.8	7819.8
27.5°	8103.8	8174.3	7836.4	7537.9	7421.8
30°	7884.1	7914.1	7443.5	7159.5	7080.7
32.5°	7630.1	7586.6	7023.7	6836.1	6790.5
35°	7345.1	7190.6	6617.4	6521.0	6479.5
37.5°	7023.7	6740.8	6216.3	6171.7	6128.1
40°	6639.2	6221.4	5786.1	5757.1	5690.7
42.5°	6142.7	5656.5	5308.2	5274.0	5214.9
45°	5508.3	5041.8	4769.2	4805.5	4751.6
47.5°	4778.5	4425.1	4252.0	4351.5	4252.0
50°	4061.2	3823.9	3776.2	3866.4	3750.3
52.5°	3473.5	3260.0	3358.5	3374.0	3304.6
55°	3009.1	2746.9	2953.2	2911.7	2952.1
57.5°	2604.9	2311.5	2565.5	2517.8	2656.7
60°	2271.1	1941.5	2204.8	2194.4	2464.9
62.5°	1943.6	1680.3	1891.7	2044.1	2376.8
65°	1663.7	1477.1	1653.3	1933.2	2100.1
67.5°	1395.2	1324.7	1512.3	1667.8	1850.3
70°	1160.9	1197.2	1500.9	1471.9	1620.1
72.5°	964.0	1087.4	1324.7	1329.9	1434.6
75°	787.8	991.0	1164.1	1243.9	1278.1
77.5°	655.1	898.7	1051.1	1079.1	1045.9
80°	549.4	791.9	919.4	907.0	860.3
82.5°	443.6	600.2	724.6	736.0	681.0
85°	313.0	435.4	531.8	534.9	493.4
87.5°	167.9	268.5	322.4	331.7	306.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)