

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-L740-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-L740-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

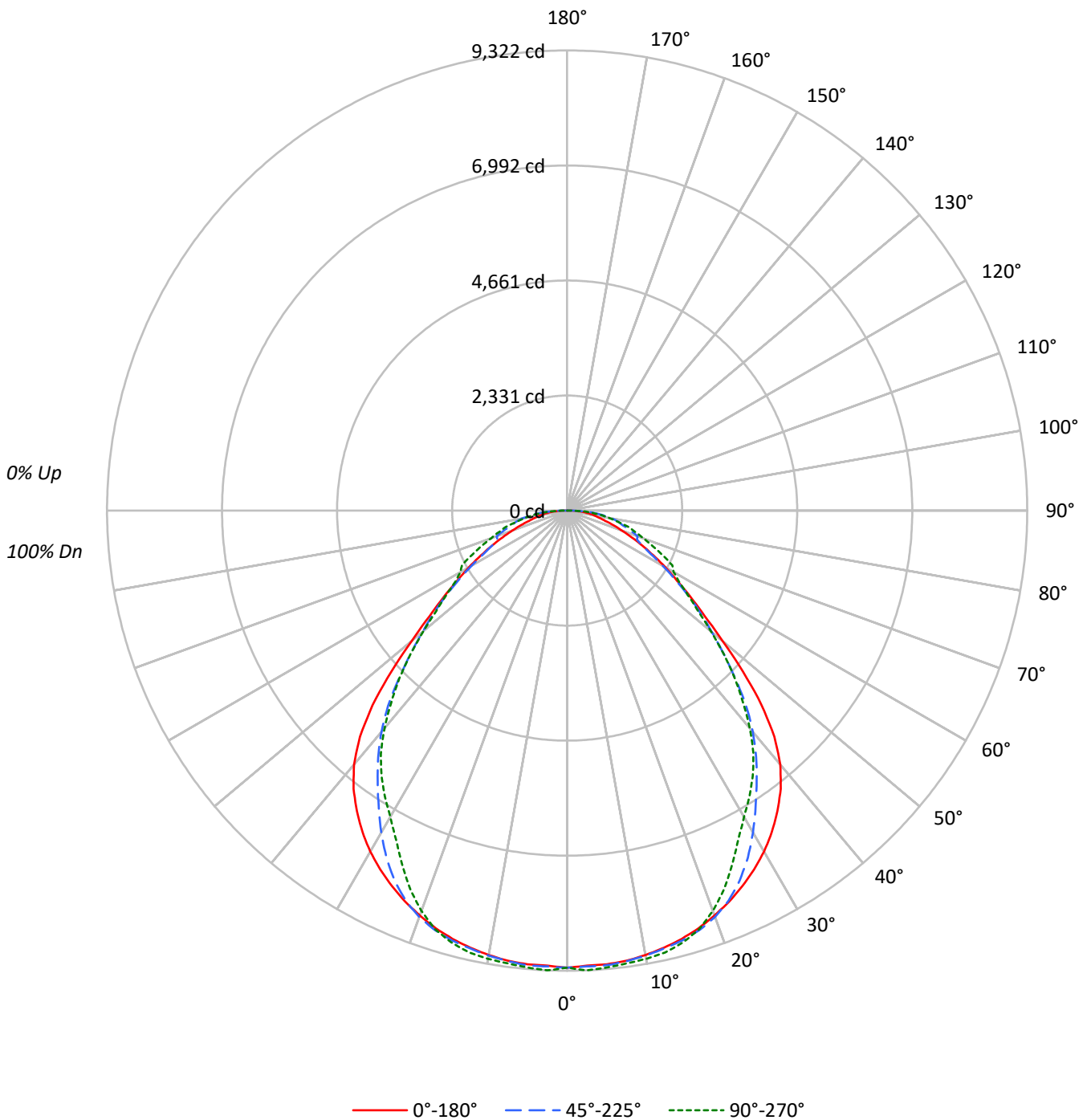
Lumens per Lamp: N/A  
Luminaire Lumens: 21434.0 lumens  
Efficiency: N/A  
Efficacy: 146.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	12460	12460	12460
5°	12459	12486	12547
10°	12490	12506	12597
15°	12509	12556	12617
20°	12496	12543	12357
25°	12465	12278	11744
30°	12391	11699	11129
35°	12205	10995	10767
40°	11797	10281	10111
45°	10603	9180	9146
50°	8600	7996	7941
55°	7141	7008	7005
60°	6183	6002	6710
65°	5358	5325	6764
70°	4620	5973	6448
75°	4143	6122	6721
80°	4307	7207	6743
85°	4889	8304	7705



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	881.7	4.1
10°-20°	2546.4	11.9
20°-30°	3781.9	17.6
30°-40°	4293.5	20.0
40°-50°	3838.2	17.9
50°-60°	2653.8	12.4
60°-70°	1751.1	8.2
70°-80°	1181.4	5.5
80°-90°	506.0	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°	7210.0	33.6
0°-40°	11503.5	53.7
0°-60°	17995.5	84.0
0°-90°	21434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21434.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9260	9260	9260	9260	9260	
5°	9224	9281	9244	9282	9290	878
15°	8980	9023	9014	9064	9058	2535
25°	8396	8476	8270	8024	7911	3869
35°	7430	7274	6694	6597	6555	4633
45°	5572	5100	4825	4861	4807	4238
55°	3044	2779	2987	2946	2986	2765
65°	1683	1494	1672	1956	2124	1679
75°	797	1002	1178	1258	1293	870
85°	317	440	538	541	499	330
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9260.2	9260.2	9260.2	9260.2	9260.2
2.5°	9228.7	9286.4	9243.4	9283.2	9322.0
5°	9224.5	9281.1	9244.4	9282.2	9289.5
7.5°	9198.3	9250.7	9207.7	9244.4	9252.8
10°	9141.7	9203.5	9153.2	9209.8	9220.3
12.5°	9068.3	9131.2	9087.1	9164.7	9168.9
15°	8980.2	9023.2	9013.7	9064.1	9057.8
17.5°	8869.0	8918.3	8911.0	8923.6	8894.2
20°	8727.5	8783.0	8760.0	8702.3	8629.9
22.5°	8575.4	8642.5	8551.3	8405.5	8303.8
25°	8396.1	8475.8	8270.3	8023.9	7910.6
27.5°	8197.9	8269.2	7927.4	7625.4	7507.9
30°	7975.6	8006.0	7530.0	7242.7	7163.0
32.5°	7718.7	7674.7	7105.3	6915.5	6869.4
35°	7430.4	7274.1	6694.2	6596.7	6554.8
37.5°	7105.3	6819.0	6288.4	6243.3	6199.3
40°	6716.3	6293.7	5853.3	5823.9	5756.8
42.5°	6214.0	5722.2	5369.9	5335.3	5275.5
45°	5572.2	5100.4	4824.6	4861.3	4806.8
47.5°	4834.0	4476.5	4301.3	4402.0	4301.3
50°	4108.4	3868.3	3820.0	3911.3	3793.8
52.5°	3513.8	3297.8	3397.5	3413.2	3342.9
55°	3044.1	2778.8	2987.4	2945.5	2986.4
57.5°	2635.1	2338.4	2595.3	2547.0	2687.6
60°	2297.5	1964.0	2230.4	2219.9	2493.6
62.5°	1966.1	1699.8	1913.7	2067.8	2404.4
65°	1683.0	1494.2	1672.5	1955.6	2124.5
67.5°	1411.4	1340.1	1529.9	1687.2	1871.7
70°	1174.4	1211.1	1518.4	1489.0	1639.0
72.5°	975.2	1100.0	1340.1	1345.3	1451.3
75°	796.9	1002.5	1177.6	1258.3	1292.9
77.5°	662.7	909.1	1063.3	1091.6	1058.0
80°	555.8	801.1	930.1	917.5	870.3
82.5°	448.8	607.1	733.0	744.5	688.9
85°	316.7	440.4	537.9	541.1	499.1
87.5°	169.9	271.6	326.1	335.6	310.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)