

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-A-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 (P23761)
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-A-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

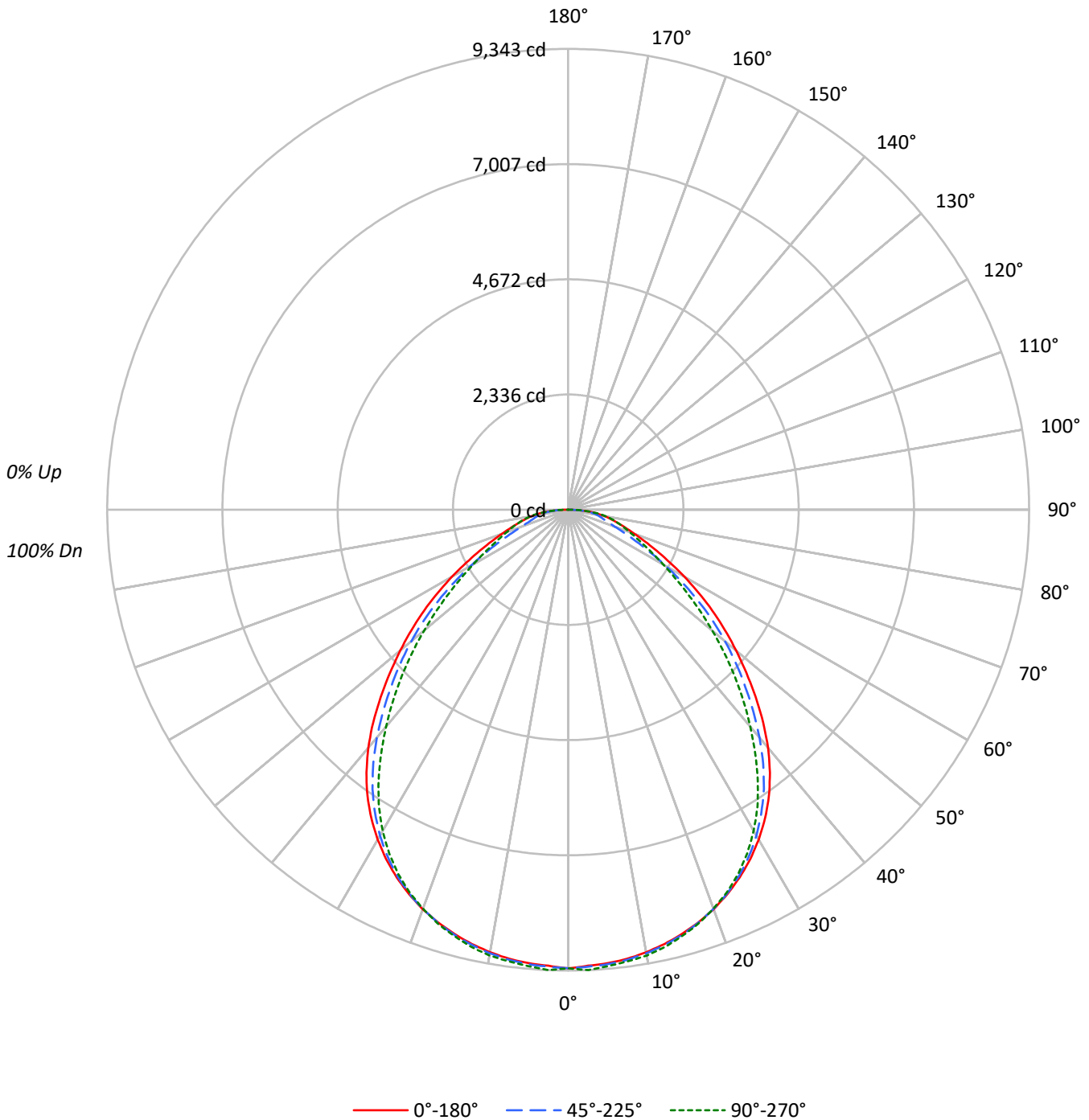
Lumens per Lamp: N/A
Luminaire Lumens: 21358.0 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65					63				
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57					55				
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45					43				
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40					38				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36					35				
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12510	12510	12510
5°	12465	12494	12545
10°	12448	12476	12539
15°	12406	12431	12460
20°	12341	12332	12323
25°	12207	12165	12097
30°	11996	11851	11679
35°	11648	11355	11005
40°	11069	10593	10085
45°	10225	9655	9070
50°	9295	8694	7978
55°	8358	7527	6897
60°	7314	6151	5985
65°	6306	4837	5401
70°	5622	3948	5206
75°	5386	3854	5440
80°	5825	4558	6061
85°	6539	5488	6604



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	881.2	4.1
10°-20°	2521.9	11.8
20°-30°	3772.4	17.7
30°-40°	4304.0	20.2
40°-50°	3917.9	18.3
50°-60°	2876.9	13.5
60°-70°	1698.7	8.0
70°-80°	973.5	4.6
80°-90°	411.6	1.9
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°	7175.5	33.6
0°-40°	11479.5	53.7
0°-60°	18274.3	85.6
0°-90°	21358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9298	9298	9298	9298	9298	
5°	9229	9287	9250	9287	9288	877
15°	8906	8956	8924	8956	8945	2513
25°	8223	8252	8194	8191	8148	3785
35°	7091	7057	6913	6795	6700	4418
45°	5374	5342	5074	4846	4767	4141
55°	3563	3398	3209	2976	2940	3186
65°	1981	1729	1519	1625	1697	1993
75°	1036	888	741	967	1046	1117
85°	424	391	356	419	428	443
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9297.5	9297.5	9297.5	9297.5	9297.5
2.5°	9254.5	9308.0	9274.4	9311.1	9342.6
5°	9229.3	9287.0	9250.3	9287.0	9288.1
7.5°	9183.2	9236.7	9201.0	9240.9	9236.7
10°	9110.9	9164.3	9131.8	9174.8	9178.0
12.5°	9018.6	9070.0	9036.4	9085.7	9077.3
15°	8906.4	8955.7	8924.2	8955.7	8945.2
17.5°	8774.3	8819.4	8778.5	8813.1	8795.2
20°	8619.1	8656.8	8612.8	8645.3	8606.5
22.5°	8433.5	8467.0	8420.9	8438.7	8398.9
25°	8222.7	8252.1	8194.4	8191.3	8148.3
27.5°	7987.9	8003.6	7930.2	7905.0	7855.7
30°	7721.5	7725.7	7628.2	7581.0	7517.1
32.5°	7422.7	7412.2	7287.4	7217.2	7138.5
35°	7091.3	7056.7	6913.1	6794.6	6700.2
37.5°	6717.0	6662.5	6490.5	6315.4	6225.2
40°	6301.8	6237.8	6031.3	5814.2	5741.9
42.5°	5849.9	5795.3	5552.1	5325.6	5254.3
45°	5373.8	5342.4	5073.9	4846.4	4766.7
47.5°	4897.8	4874.7	4612.6	4380.8	4284.4
50°	4440.6	4390.3	4153.3	3899.6	3811.5
52.5°	3997.1	3894.3	3685.7	3425.6	3360.6
55°	3563.0	3398.4	3208.6	2975.8	2940.1
57.5°	3133.1	2920.2	2735.7	2561.6	2560.6
60°	2717.8	2474.6	2285.8	2194.6	2224.0
62.5°	2328.8	2079.3	1874.8	1881.1	1934.6
65°	1980.7	1729.1	1519.3	1625.3	1696.6
67.5°	1681.9	1441.8	1228.9	1426.0	1494.2
70°	1429.2	1212.1	1003.5	1249.9	1323.3
72.5°	1216.3	1033.9	846.2	1103.1	1177.5
75°	1036.0	888.1	741.3	966.8	1046.5
77.5°	889.2	758.1	664.8	836.7	919.6
80°	751.8	636.5	588.2	710.9	782.2
82.5°	595.6	515.9	487.6	577.8	614.5
85°	423.6	391.1	355.5	419.4	427.8
87.5°	232.8	241.2	199.2	241.2	242.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)