

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

Luminaire Equipment: Sample No. Condition Description

Summary

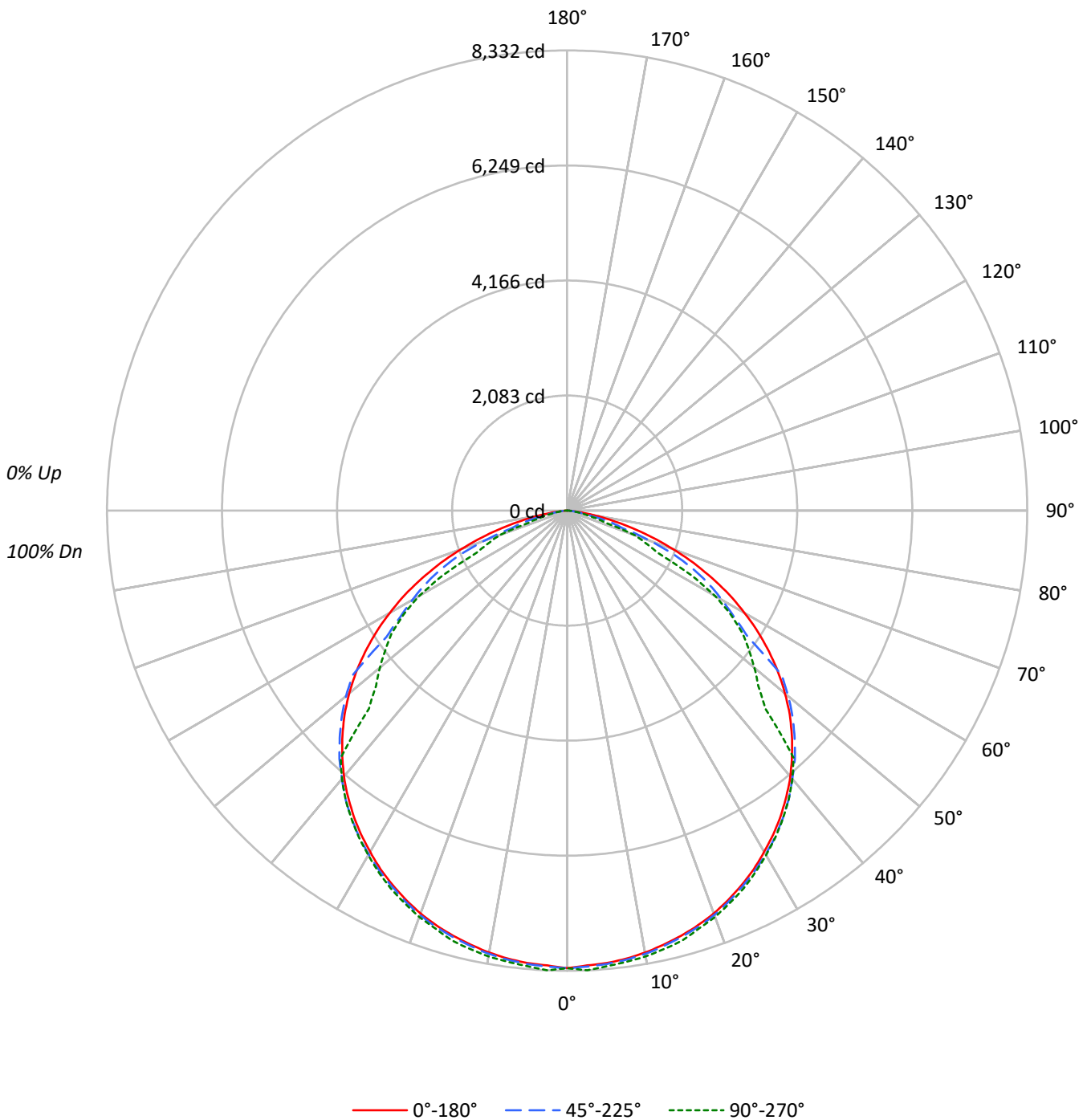
Lumens per Lamp: N/A
Luminaire Lumens: 22394.0 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	11145	11145	11145
5°	11105	11129	11184
10°	11104	11135	11200
15°	11103	11137	11227
20°	11117	11159	11211
25°	11104	11146	11213
30°	11083	11165	11190
35°	11078	11179	11187
40°	11043	11141	11141
45°	10949	11081	9655
50°	10780	10942	9264
55°	10474	9367	9099
60°	9982	8707	8313
65°	9232	8082	5757
70°	8039	6289	5130
75°	6350	4221	2758
80°	4087	2016	1719
85°	1681	1230	1354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	785.8	3.5
10°-20°	2264.8	10.1
20°-30°	3472.3	15.5
30°-40°	4255.9	19.0
40°-50°	4375.4	19.5
50°-60°	3734.2	16.7
60°-70°	2468.7	11.0
70°-80°	914.7	4.1
80°-90°	122.3	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°	6522.9	29.1
0°-40°	10778.8	48.1
0°-60°	18888.3	84.3
0°-90°	22394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22394.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8284	8284	8284	8284	8284	
5°	8222	8279	8240	8272	8280	782
15°	7971	8019	7995	8056	8060	2251
25°	7480	7519	7508	7575	7553	3449
35°	6744	6791	6806	6848	6811	4219
45°	5754	5811	5824	5814	5074	4434
55°	4465	4547	3993	3877	3879	3984
65°	2900	2924	2539	2088	1808	2859
75°	1221	1070	812	546	530	1310
85°	109	78	80	87	88	180
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8283.5	8283.5	8283.5	8283.5	8283.5
2.5°	8243.1	8294.6	8264.3	8302.6	8331.9
5°	8221.9	8279.4	8240.1	8272.4	8280.4
7.5°	8185.6	8239.1	8202.8	8245.1	8239.1
10°	8127.1	8175.5	8150.3	8194.7	8197.7
12.5°	8052.5	8100.9	8077.7	8132.2	8131.2
15°	7970.8	8019.2	7995.0	8055.5	8059.6
17.5°	7875.0	7919.4	7901.2	7956.7	7934.5
20°	7764.0	7802.4	7793.3	7845.7	7829.6
22.5°	7627.9	7667.2	7658.1	7718.7	7694.4
25°	7479.6	7519.0	7507.9	7575.4	7553.2
27.5°	7319.3	7356.6	7355.6	7419.1	7384.8
30°	7133.7	7183.1	7186.1	7242.6	7202.3
32.5°	6950.1	6996.5	7009.6	7051.0	7016.7
35°	6744.4	6790.8	6805.9	6848.2	6810.9
37.5°	6522.5	6561.8	6589.0	6620.3	6591.1
40°	6287.5	6322.8	6343.0	6381.3	6343.0
42.5°	6025.2	6075.7	6103.9	6131.1	6068.6
45°	5753.9	5811.4	5823.5	5814.5	5074.2
47.5°	5466.5	5529.0	5536.1	4828.1	4691.9
50°	5149.8	5228.5	5227.5	4462.0	4425.6
52.5°	4820.0	4895.6	4892.6	4175.5	4151.3
55°	4465.0	4546.7	3993.0	3877.0	3879.0
57.5°	4102.9	4161.4	3582.5	3587.5	3520.9
60°	3709.6	3765.0	3235.5	3204.3	3089.3
62.5°	3315.2	3338.4	2899.7	2747.4	2528.5
65°	2899.7	2923.9	2538.6	2087.8	1808.4
67.5°	2473.0	2497.2	2106.9	1553.2	1532.0
70°	2043.4	1845.7	1598.6	1294.0	1304.1
72.5°	1619.8	1418.1	1044.9	1002.5	724.2
75°	1221.4	1070.1	811.9	545.6	530.5
77.5°	850.2	737.3	434.7	372.2	348.0
80°	527.5	370.1	260.2	231.0	221.9
82.5°	267.3	212.8	141.2	141.2	141.2
85°	108.9	77.7	79.7	86.7	87.7
87.5°	23.2	31.3	38.3	39.3	38.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)