

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-AWG-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 (P23764)
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-AWG-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

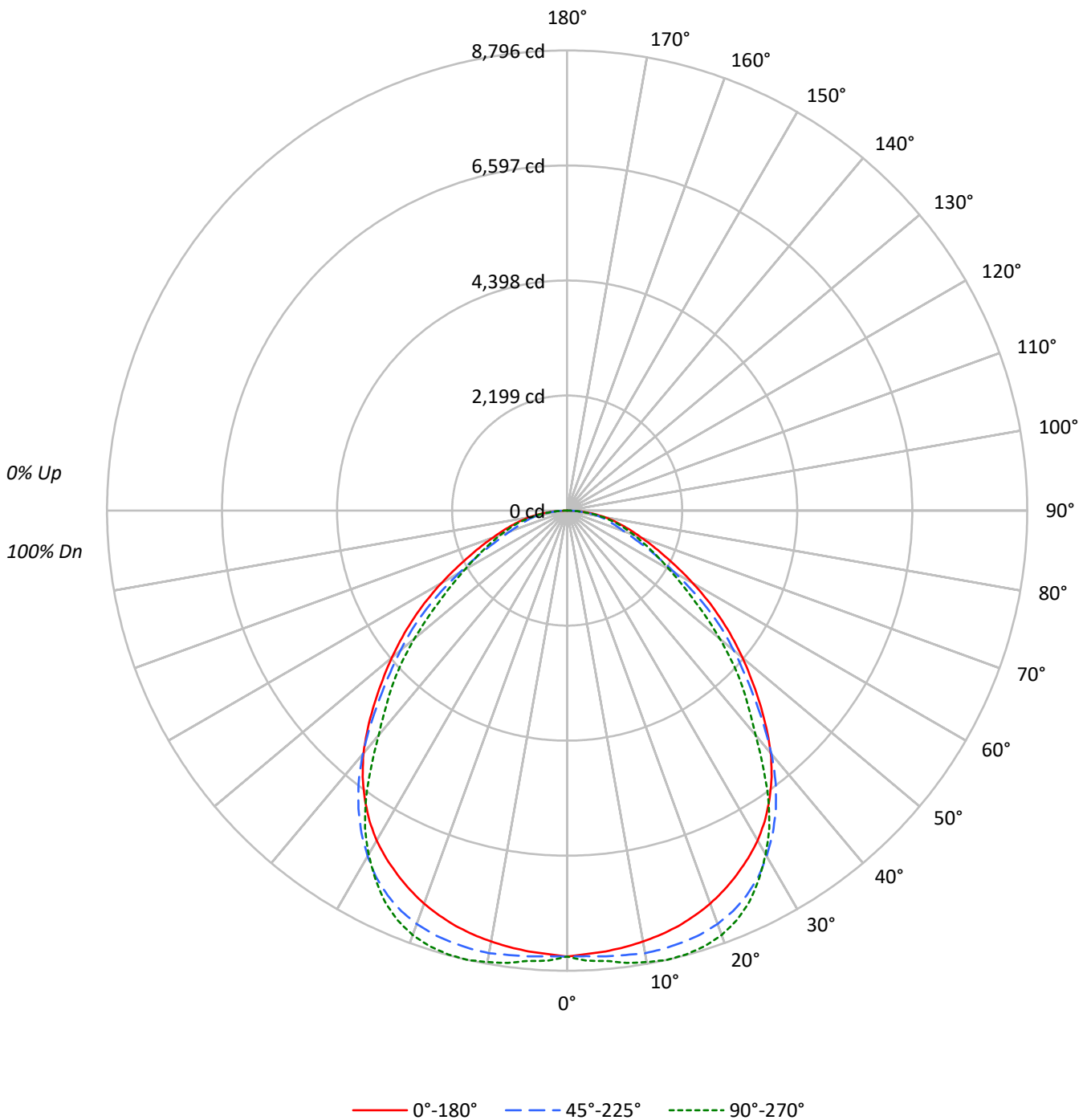
Lumens per Lamp: N/A
Luminaire Lumens: 21131.0 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11469	11469	11469
5°	11425	11552	11670
10°	11428	11738	11974
15°	11450	11901	12235
20°	11447	12037	12361
25°	11398	12053	12248
30°	11313	11852	11789
35°	11074	11423	11007
40°	10640	10671	9841
45°	9904	9621	8996
50°	9154	8700	7972
55°	8380	7710	6879
60°	7473	6399	6075
65°	6554	5266	5581
70°	5917	4536	5314
75°	5656	4446	5300
80°	5701	4707	5170
85°	5050	4312	4514



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	818.8	3.9
10°-20°	2413.1	11.4
20°-30°	3701.3	17.5
30°-40°	4257.0	20.1
40°-50°	3882.7	18.4
50°-60°	2910.1	13.8
60°-70°	1790.1	8.5
70°-80°	1025.8	4.9
80°-90°	332.1	1.6
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°	6933.2	32.8
0°-40°	11190.2	53.0
0°-60°	17983.0	85.1
0°-90°	21131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8524	8524	8524	8524	8524	
5°	8459	8545	8553	8624	8640	804
15°	8220	8402	8544	8726	8784	2320
25°	7677	7898	8119	8244	8250	3538
35°	6742	6873	6955	6841	6701	4204
45°	5205	5318	5056	4795	4728	4017
55°	3572	3440	3287	2996	2932	3192
65°	2058	1841	1654	1705	1753	2070
75°	1088	975	855	979	1020	1163
85°	327	309	279	294	292	365
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8524.1	8524.1	8524.1	8524.1	8524.1
2.5°	8483.9	8544.7	8525.2	8575.2	8612.1
5°	8458.9	8544.7	8553.4	8624.1	8640.4
7.5°	8416.5	8528.4	8567.5	8692.5	8720.8
10°	8364.3	8499.1	8591.5	8726.2	8764.3
12.5°	8301.3	8457.8	8575.2	8741.4	8795.8
15°	8219.8	8402.3	8543.6	8726.2	8783.8
17.5°	8116.5	8328.4	8493.6	8673.0	8732.7
20°	7994.8	8218.7	8406.7	8590.4	8632.8
22.5°	7848.1	8073.0	8287.1	8452.3	8475.2
25°	7677.4	7898.1	8118.7	8243.7	8250.2
27.5°	7491.6	7697.0	7903.5	7970.9	7941.5
30°	7281.8	7465.5	7628.5	7642.6	7588.3
32.5°	7032.9	7198.1	7314.4	7284.0	7192.7
35°	6741.7	6873.2	6954.7	6840.6	6701.4
37.5°	6422.1	6521.0	6548.2	6300.4	6141.7
40°	6058.0	6142.8	6075.4	5730.9	5602.7
42.5°	5638.5	5736.3	5563.5	5223.3	5145.1
45°	5204.9	5317.9	5056.0	4795.1	4727.7
47.5°	4779.9	4883.2	4586.5	4376.7	4276.7
50°	4373.4	4418.0	4156.1	3919.1	3808.3
52.5°	3973.5	3928.9	3743.1	3448.5	3350.7
55°	3572.4	3439.8	3286.6	2996.4	2932.3
57.5°	3170.3	2985.5	2818.2	2595.4	2570.4
60°	2776.9	2549.7	2378.0	2245.4	2257.4
62.5°	2401.9	2170.4	1986.7	1944.4	1990.0
65°	2058.5	1841.1	1654.2	1705.2	1753.1
67.5°	1772.6	1564.0	1373.8	1504.2	1542.2
70°	1504.2	1335.7	1153.1	1321.6	1350.9
72.5°	1290.1	1146.6	987.9	1152.0	1177.0
75°	1087.9	974.9	855.3	979.2	1019.5
77.5°	911.9	818.4	736.9	809.7	853.2
80°	735.8	656.5	607.5	640.1	667.3
82.5°	539.1	488.0	452.1	466.3	470.6
85°	327.1	308.7	279.3	294.5	292.4
87.5°	107.6	122.8	129.3	116.3	109.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)