

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-N-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 (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-N-UNV-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

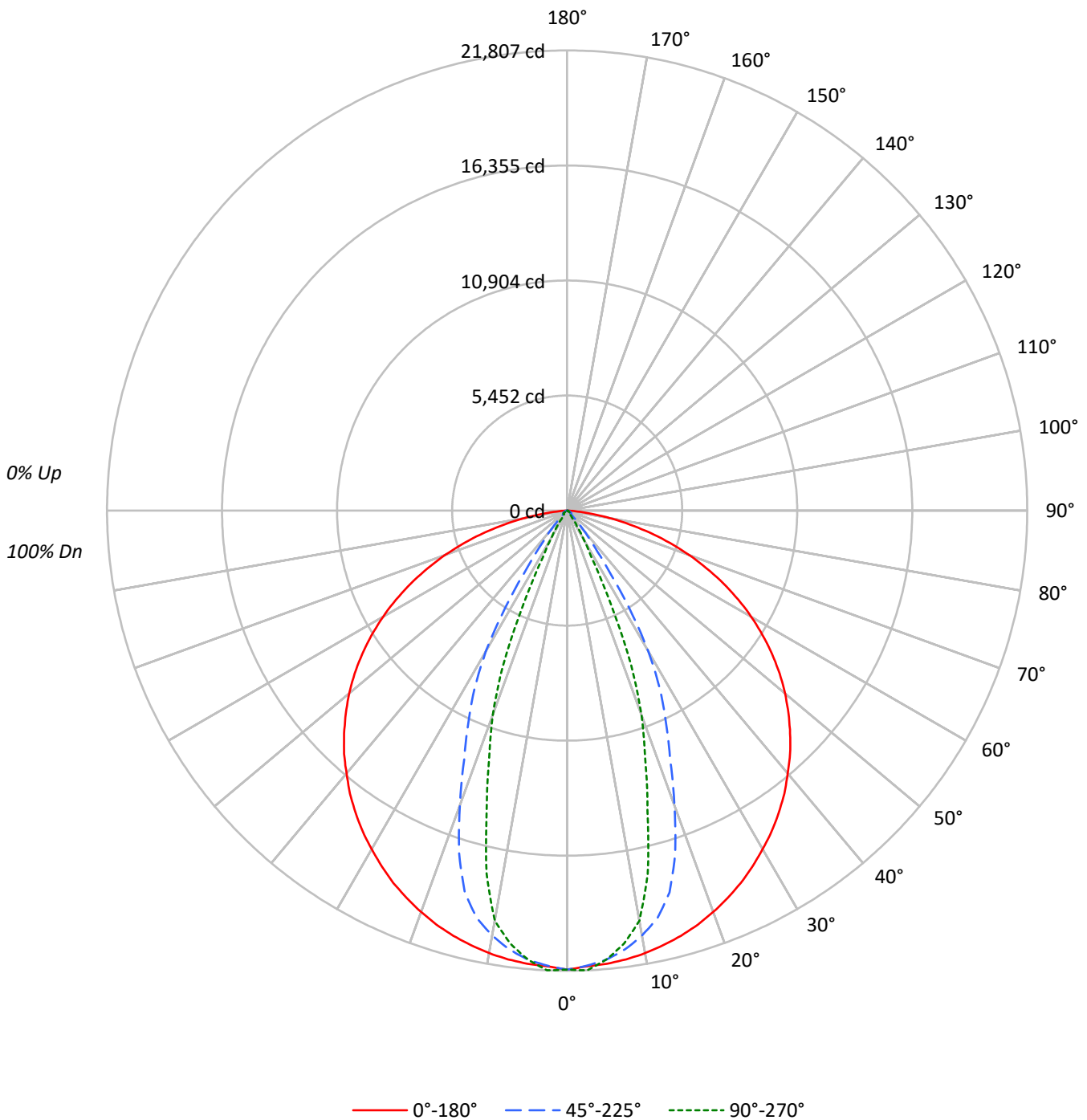
Lumens per Lamp: N/A
Luminaire Lumens: 23122.0 lumens
Efficiency: N/A
Efficacy: 158.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101		102	100	98		98	96	95		95	93	92	90
2	105	98	93	89	102	97	92	88		93	89	86		90	87	84		87	85	82	81
3	98	90	84	79	96	88	83	78		86	81	77		83	79	76		81	77	74	73
4	92	82	76	70	90	81	75	70		79	73	69		77	72	68		75	71	67	66
5	86	76	69	64	84	75	68	63		73	67	63		71	66	62		70	65	62	60
6	81	70	63	58	79	70	63	58		68	62	58		66	61	57		65	60	57	55
7	76	66	58	54	75	65	58	53		63	57	53		62	57	53		61	56	52	51
8	72	61	54	49	71	61	54	49		59	53	49		58	53	49		57	52	49	47
9	68	57	51	46	67	57	50	46		56	50	46		55	49	46		54	49	45	44
10	65	54	47	43	64	53	47	43		53	47	43		52	46	43		51	46	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29270	29270	29270
5°	29113	28856	28844
10°	29095	27932	26952
15°	29054	26095	20512
20°	28987	21272	14765
25°	28913	16448	7273
30°	28785	11954	2359
35°	28717	5303	607
40°	28567	2154	409
45°	28439	605	435
50°	28217	429	483
55°	27811	510	206
60°	27124	568	125
65°	26009	362	148
70°	24162	322	183
75°	21137	242	253
80°	15804	297	361
85°	7828	383	479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2018.8	8.7
10°-20°	5048.1	21.8
20°-30°	5467.8	23.6
30°-40°	4049.2	17.5
40°-50°	2916.4	12.6
50°-60°	1805.8	7.8
60°-70°	1110.6	4.8
70°-80°	585.4	2.5
80°-90°	119.8	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°	12534.7	54.2
0°-40°	16583.9	71.7
0°-60°	21306.1	92.1
0°-90°	23122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21754	21754	21754	21754	21754	
5°	21556	21635	21365	21381	21356	###
15°	20858	20374	18733	15931	14725	5888
25°	19475	17839	11079	6970	4899	8974
35°	17483	12325	3229	760	370	10938
45°	14946	6944	318	230	229	11526
55°	11856	1430	217	197	88	10584
65°	8169	151	114	72	47	8060
75°	4066	35	47	61	49	4295
85°	507	14	25	37	31	766
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21754.2	21754.2	21754.2	21754.2	21754.2
2.5°	21614.5	21752.2	21589.7	21710.8	21807.0
5°	21555.5	21635.2	21365.1	21380.6	21355.8
7.5°	21452.0	21433.4	20979.1	20780.4	20693.5
10°	21295.8	21172.6	20444.1	20029.1	19726.9
12.5°	21094.0	20818.7	19776.6	18457.1	17637.5
15°	20858.0	20373.7	18733.4	15931.0	14725.3
17.5°	20576.5	19890.4	17027.9	13352.0	12275.8
20°	20244.3	19351.2	14856.7	11359.9	10311.6
22.5°	19873.8	18695.1	12747.7	9441.2	7945.8
25°	19475.4	17839.3	11079.4	6969.9	4899.1
27.5°	19014.9	16739.2	9514.7	4105.4	2500.3
30°	18527.5	15414.5	7694.3	2208.4	1518.2
32.5°	18035.9	13912.9	5444.5	1379.5	861.0
35°	17483.3	12325.4	3228.8	759.6	369.5
37.5°	16906.8	10870.4	1908.3	345.7	237.0
40°	16264.2	9540.6	1226.3	229.7	232.8
42.5°	15643.3	8300.8	690.3	226.6	230.8
45°	14945.7	6944.0	317.7	229.7	228.7
47.5°	14224.4	5537.6	205.9	231.8	231.8
50°	13480.4	3959.5	204.9	237.0	230.8
52.5°	12694.9	2470.3	213.2	236.0	189.4
55°	11855.6	1430.2	217.3	196.6	88.0
57.5°	10986.3	843.4	219.4	112.8	49.7
60°	10079.7	466.7	211.1	83.8	46.6
62.5°	9145.2	222.5	166.6	78.7	45.5
65°	8169.3	151.1	113.8	72.4	46.6
67.5°	7156.2	116.9	90.0	68.3	47.6
70°	6142.0	86.9	81.8	68.3	46.6
72.5°	5111.3	59.0	68.3	69.3	46.6
75°	4066.0	35.2	46.6	61.1	48.6
77.5°	3030.1	21.7	36.2	63.1	59.0
80°	2039.7	18.6	38.3	59.0	46.6
82.5°	1197.4	16.6	37.3	45.5	37.3
85°	507.1	13.5	24.8	37.3	31.0
87.5°	95.2	11.4	19.7	30.0	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)