

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-CL-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 (P23768)
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-CL-UNV-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

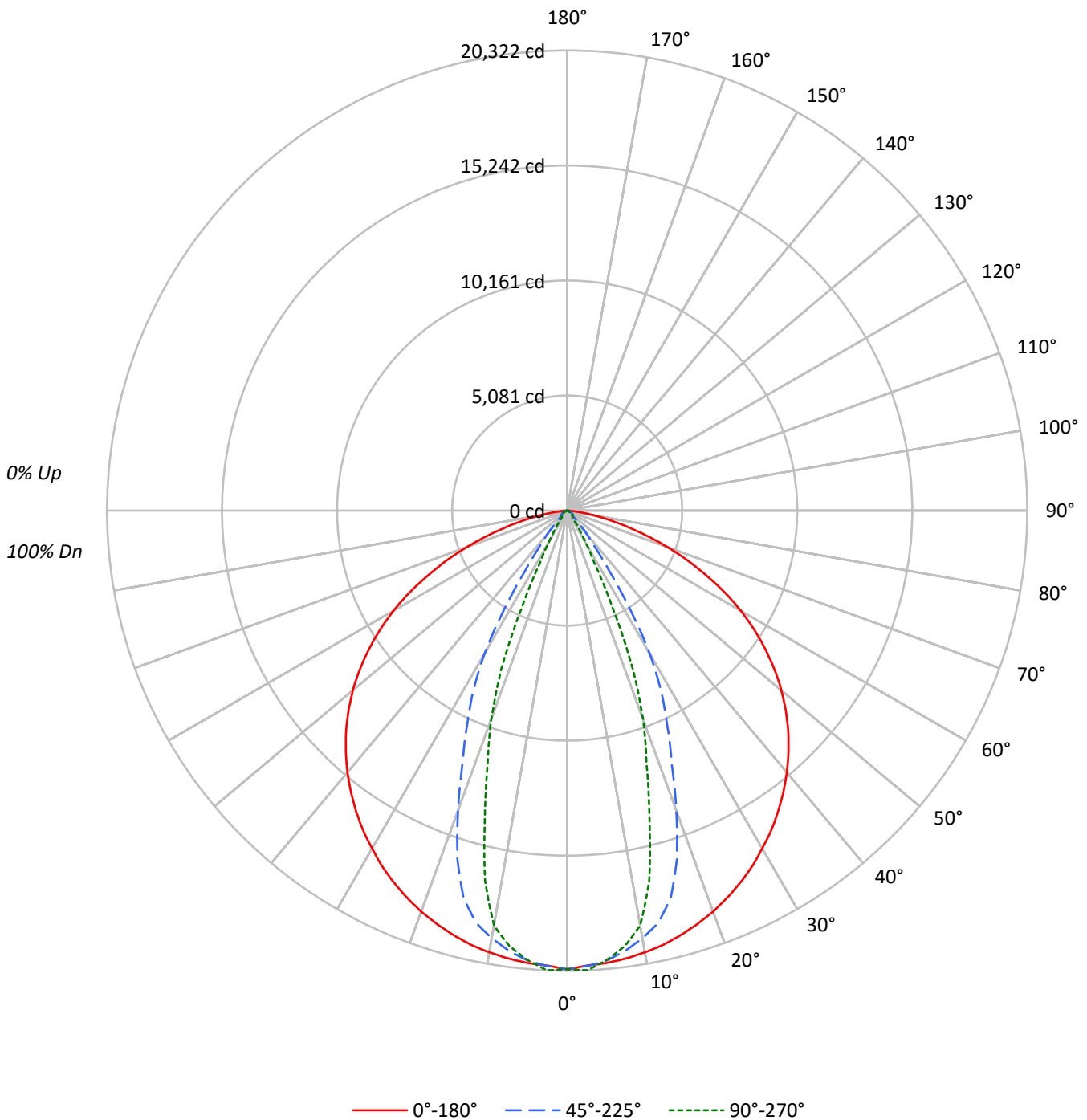
Lumens per Lamp: N/A
Luminaire Lumens: 21662.0 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90				90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81				81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73				73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66				66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60				60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55				55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51				51
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47				47
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44				44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41				41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27252	27252	27252
5°	27085	26943	26924
10°	27067	26199	25425
15°	27036	24636	19550
20°	26983	20161	14023
25°	26898	15533	7126
30°	26771	11336	2593
35°	26675	5206	902
40°	26511	2363	623
45°	26276	882	631
50°	25857	640	664
55°	25091	673	506
60°	23844	720	446
65°	21623	548	363
70°	18540	395	334
75°	14171	350	318
80°	8866	329	346
85°	2800	384	465



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1885.7	8.7
10°-20°	4750.2	21.9
20°-30°	5173.2	23.9
30°-40°	3869.8	17.9
40°-50°	2782.5	12.8
50°-60°	1708.9	7.9
60°-70°	983.3	4.5
70°-80°	438.9	2.0
80°-90°	69.6	0.3
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°	11809.1	54.5
0°-40°	15678.9	72.4
0°-60°	20170.2	93.1
0°-90°	21662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20254	20254	20254	20254	20254	
5°	20054	20148	19949	19967	19934	###
15°	19409	19037	17686	15189	14035	5479
25°	18118	16819	10463	6713	4800	8352
35°	16240	11648	3170	932	549	10159
45°	13809	6544	463	343	332	10638
55°	10696	1360	287	278	216	9536
65°	6792	149	172	143	114	6723
75°	2726	90	67	69	61	2958
85°	181	18	25	32	30	361
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20254.5	20254.5	20254.5	20254.5	20254.5
2.5°	20113.6	20245.2	20134.3	20233.8	20321.9
5°	20053.5	20147.8	19948.8	19967.4	19934.3
7.5°	19949.8	19972.6	19613.0	19474.1	19406.7
10°	19810.9	19749.8	19175.6	18845.0	18609.7
12.5°	19635.8	19433.7	18631.4	17450.9	16747.2
15°	19408.8	19036.7	17686.2	15189.4	14034.7
17.5°	19138.3	18622.1	16121.1	12659.3	11660.2
20°	18845.0	18164.0	14080.3	10763.7	9793.5
22.5°	18498.8	17578.4	12067.5	8951.9	7620.1
25°	18118.4	16818.7	10463.1	6713.2	4799.9
27.5°	17708.0	15816.4	8977.8	4116.8	2595.3
30°	17231.2	14596.5	7296.7	2310.3	1668.7
32.5°	16765.8	13174.5	5212.4	1539.1	1066.5
35°	16240.3	11647.8	3169.5	931.8	549.3
37.5°	15683.7	10259.9	1983.8	506.8	379.3
40°	15094.0	8943.6	1345.3	359.7	354.5
42.5°	14463.8	7752.7	842.6	342.0	353.4
45°	13808.8	6544.2	463.3	343.1	331.7
47.5°	13097.8	5232.1	323.4	324.4	323.4
50°	12352.6	3753.0	305.8	320.3	317.2
52.5°	11549.3	2330.0	306.8	313.0	280.9
55°	10696.3	1359.8	287.1	277.8	215.6
57.5°	9799.7	847.8	280.9	229.1	193.8
60°	8860.7	447.8	267.4	206.3	165.8
62.5°	7860.5	220.8	214.5	176.2	135.8
65°	6791.9	149.3	172.1	143.0	114.0
67.5°	5759.6	134.7	129.6	117.1	99.5
70°	4712.8	123.3	100.5	102.6	85.0
72.5°	3685.7	111.9	80.8	88.1	71.5
75°	2725.9	90.2	67.4	69.4	61.2
77.5°	1896.7	70.5	52.9	59.1	57.0
80°	1144.3	44.6	42.5	48.7	44.6
82.5°	554.5	29.0	33.2	38.3	35.2
85°	181.4	17.6	24.9	32.1	30.1
87.5°	22.8	10.4	20.7	28.0	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)