

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-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 (P23760)
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-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

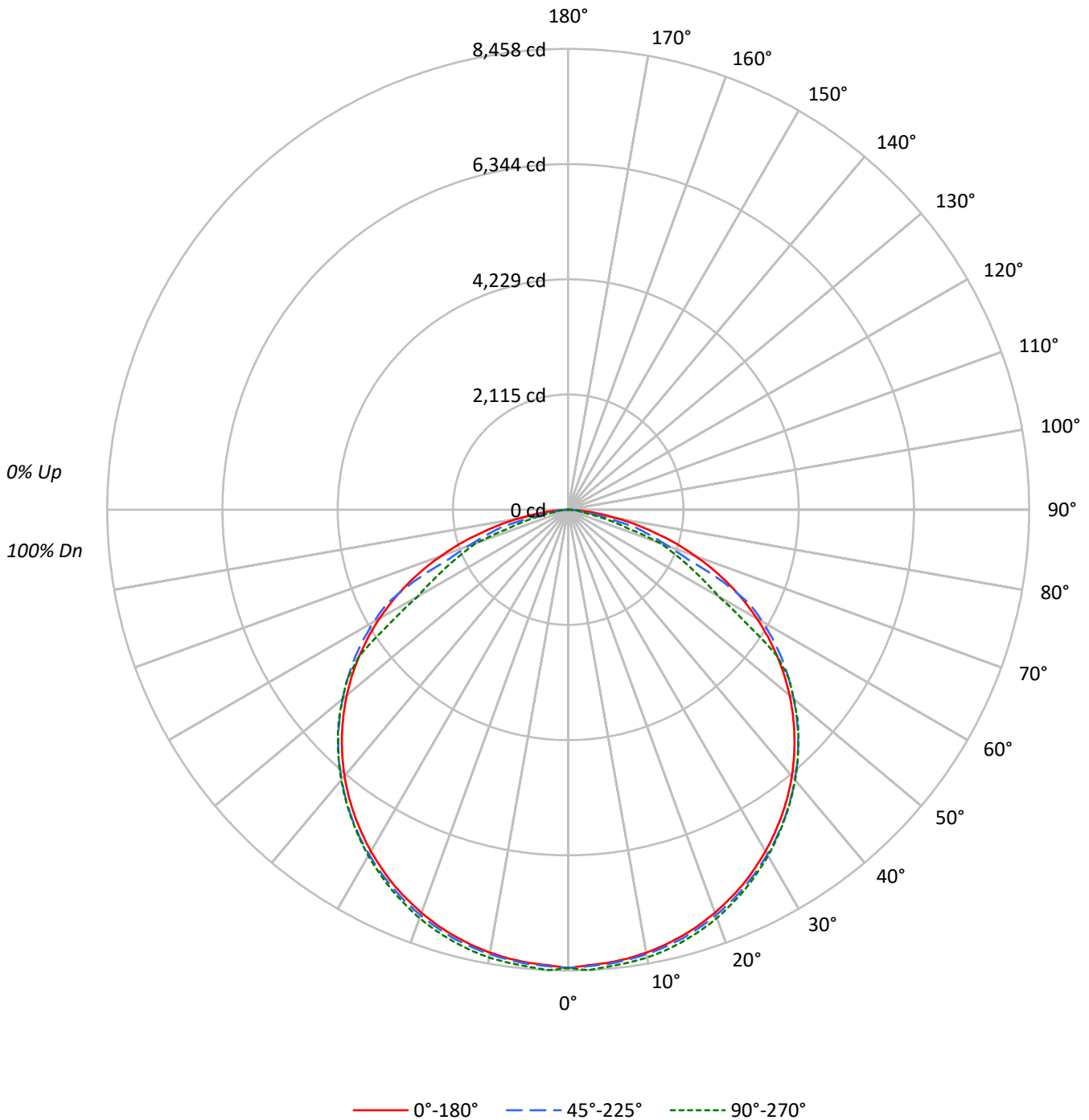
Lumens per Lamp: N/A
Luminaire Lumens: 24288.0 lumens
Efficiency: N/A
Efficacy: 166.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11320	11320	11320
5°	11273	11304	11369
10°	11279	11319	11405
15°	11277	11337	11416
20°	11271	11343	11422
25°	11267	11347	11410
30°	11247	11357	11399
35°	11233	11362	11377
40°	11212	11361	11379
45°	11170	11356	11370
50°	11103	11308	11306
55°	10974	11248	10969
60°	10770	11082	8582
65°	10411	9974	7733
70°	9753	7674	7126
75°	8636	6691	4441
80°	7112	3939	1985
85°	4687	2413	2600



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.4	3.3
10°-20°	2303.4	9.5
20°-30°	3531.3	14.5
30°-40°	4330.8	17.8
40°-50°	4598.6	18.9
50°-60°	4200.3	17.3
60°-70°	2925.1	12.0
70°-80°	1364.2	5.6
80°-90°	236.0	1.0
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°	6633.0	27.3
0°-40°	10963.8	45.1
0°-60°	19762.7	81.4
0°-90°	24288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24288.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8413	8413	8413	8413	8413	
5°	8347	8405	8370	8410	8417	794
15°	8095	8152	8139	8188	8195	2286
25°	7589	7656	7644	7700	7686	3497
35°	6839	6917	6917	6964	6926	4279
45°	5870	5959	5968	6006	5975	4527
55°	4678	4772	4795	4803	4676	4178
65°	3270	3371	3133	2491	2429	3227
75°	1661	1766	1287	892	854	1776
85°	304	200	156	167	168	392
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8413.1	8413.1	8413.1	8413.1	8413.1
2.5°	8368.8	8422.2	8386.9	8425.2	8457.5
5°	8346.6	8405.1	8369.8	8410.1	8417.2
7.5°	8310.3	8365.7	8333.5	8377.8	8388.9
10°	8255.8	8310.3	8285.0	8337.5	8347.6
12.5°	8182.2	8237.6	8218.5	8276.0	8283.0
15°	8095.4	8151.9	8138.8	8188.2	8195.3
17.5°	7993.5	8052.0	8036.9	8089.4	8094.4
20°	7871.5	7935.0	7921.9	7983.5	7977.4
22.5°	7734.3	7801.9	7791.8	7853.3	7835.2
25°	7589.1	7655.6	7643.5	7700.0	7685.9
27.5°	7418.6	7492.2	7481.2	7535.6	7513.4
30°	7239.1	7313.7	7309.7	7359.1	7336.9
32.5°	7045.4	7125.1	7121.1	7169.5	7135.2
35°	6838.6	6917.3	6917.3	6963.7	6926.4
37.5°	6619.8	6699.4	6700.5	6744.8	6709.5
40°	6383.7	6463.4	6468.5	6510.8	6478.6
42.5°	6135.6	6222.4	6226.4	6264.7	6234.5
45°	5870.3	5959.1	5968.2	6006.5	5975.2
47.5°	5593.0	5682.7	5690.8	5732.2	5710.0
50°	5304.5	5391.2	5402.3	5436.6	5401.3
52.5°	4999.9	5088.6	5103.8	5124.9	5108.8
55°	4678.1	4771.9	4795.1	4803.2	4676.1
57.5°	4345.3	4441.1	4463.3	4277.7	3869.2
60°	4002.3	4097.1	4118.3	3479.8	3189.3
62.5°	3645.3	3738.1	3761.3	2883.7	2790.9
65°	3270.0	3370.9	3132.9	2491.4	2428.8
67.5°	2884.7	2988.6	2369.3	2135.3	2098.0
70°	2479.3	2584.2	1950.7	1820.6	1811.5
72.5°	2089.9	2167.6	1600.7	1379.8	1162.0
75°	1661.2	1766.1	1287.0	891.6	854.3
77.5°	1288.0	1113.5	776.7	653.6	515.4
80°	917.9	744.4	508.4	271.3	256.2
82.5°	582.0	486.2	199.7	204.8	213.8
85°	303.6	199.7	156.3	167.4	168.4
87.5°	97.8	85.7	93.8	92.8	91.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)