

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-CLWG-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-CLWG-UNV-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21887.0 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

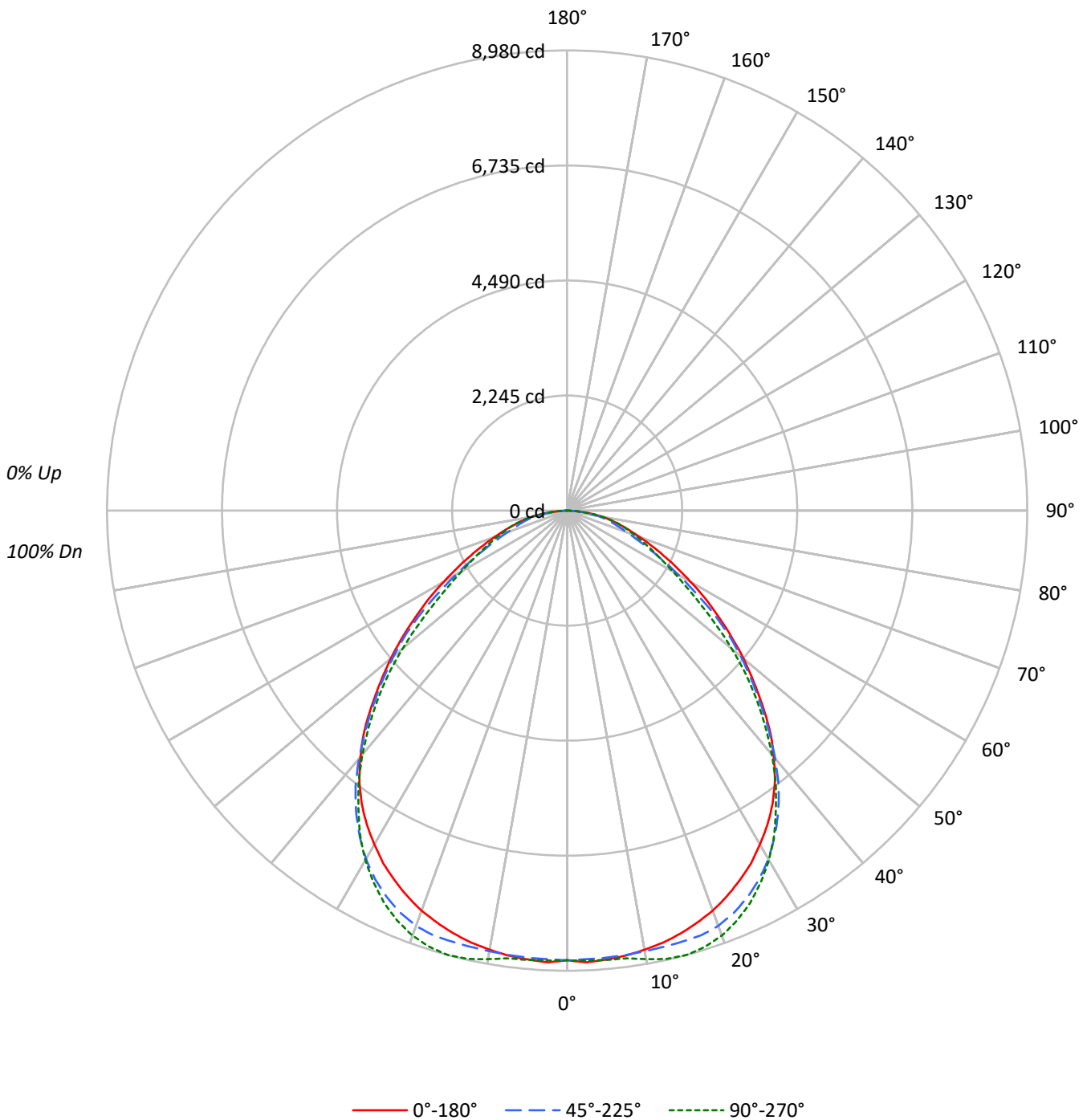
Input Watts (W): 146.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88				86	
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75				73	
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65				63	
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57				55	
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50				48	
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44				42	
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40				38	
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36				34	
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32				31	
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30				28	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11808	11808	11808
5°	11878	11829	11887
10°	11888	11928	12142
15°	11903	12127	12508
20°	11895	12349	12637
25°	11822	12360	12541
30°	11686	12196	12235
35°	11478	11801	11660
40°	11025	11093	10918
45°	10273	10165	9958
50°	9405	9254	8780
55°	8448	8135	7423
60°	7492	6731	6408
65°	6601	5592	5816
70°	5904	4853	5539
75°	5531	4719	5601
80°	5384	4771	5332
85°	4298	3775	3913



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	836.0	3.8
10°-20°	2462.5	11.3
20°-30°	3788.3	17.3
30°-40°	4421.1	20.2
40°-50°	4108.4	18.8
50°-60°	3045.3	13.9
60°-70°	1861.6	8.5
70°-80°	1060.4	4.8
80°-90°	303.3	1.4
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°	7086.8	32.4
0°-40°	11508.0	52.6
0°-60°	18661.7	85.3
0°-90°	21887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21887.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8776	8776	8776	8776	8776	
5°	8794	8753	8758	8751	8801	837
15°	8545	8541	8706	8878	8980	2412
25°	7963	8024	8326	8396	8448	3668
35°	6988	7042	7185	7126	7099	4354
45°	5399	5430	5342	5258	5234	4160
55°	3601	3511	3468	3221	3164	3232
65°	2074	1883	1757	1804	1827	2075
75°	1064	998	908	1034	1078	1139
85°	278	272	244	254	254	321
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8776.1	8776.1	8776.1	8776.1	8776.1
2.5°	8823.6	8773.8	8764.7	8744.4	8789.6
5°	8794.2	8753.4	8757.9	8751.2	8801.0
7.5°	8760.2	8730.8	8748.9	8746.6	8812.3
10°	8701.4	8685.5	8730.8	8780.6	8887.0
12.5°	8635.7	8619.9	8719.5	8846.2	8961.7
15°	8545.2	8540.6	8705.9	8877.9	8979.8
17.5°	8432.0	8438.8	8690.0	8837.2	8927.7
20°	8307.5	8318.8	8624.4	8744.4	8825.9
22.5°	8146.8	8185.3	8497.6	8597.2	8660.6
25°	7963.4	8024.5	8325.6	8395.8	8447.8
27.5°	7766.5	7827.6	8112.8	8149.0	8178.5
30°	7522.0	7608.0	7850.2	7854.8	7875.1
32.5°	7273.0	7350.0	7535.6	7515.2	7519.7
35°	6987.8	7042.1	7184.7	7125.9	7098.7
37.5°	6659.6	6689.0	6779.5	6691.3	6686.7
40°	6277.0	6315.5	6315.5	6193.3	6215.9
42.5°	5869.6	5883.1	5826.6	5711.1	5729.2
45°	5398.7	5430.4	5342.1	5258.4	5233.5
47.5°	4932.4	4964.1	4871.3	4774.0	4731.0
50°	4493.3	4477.4	4420.9	4255.6	4194.5
52.5°	4038.3	3988.5	3965.9	3723.7	3653.5
55°	3601.4	3510.9	3467.9	3221.1	3164.5
57.5°	3196.2	3033.3	2951.8	2759.4	2736.7
60°	2784.3	2600.9	2501.3	2376.8	2381.3
62.5°	2410.8	2218.3	2098.4	2062.2	2078.0
65°	2073.5	1883.3	1756.6	1804.1	1826.7
67.5°	1767.9	1611.7	1469.1	1580.0	1602.6
70°	1500.8	1376.3	1233.7	1396.7	1408.0
72.5°	1278.9	1177.1	1057.1	1211.0	1235.9
75°	1063.9	998.3	907.7	1034.5	1077.5
77.5°	876.0	824.0	771.9	848.9	896.4
80°	694.9	642.9	615.7	656.4	688.1
82.5°	491.2	457.3	430.1	459.5	475.4
85°	278.4	271.6	244.5	253.5	253.5
87.5°	63.4	72.4	81.5	74.7	63.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)