

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-WG-UNV-L840-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 (P33336)
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-WG-UNV-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

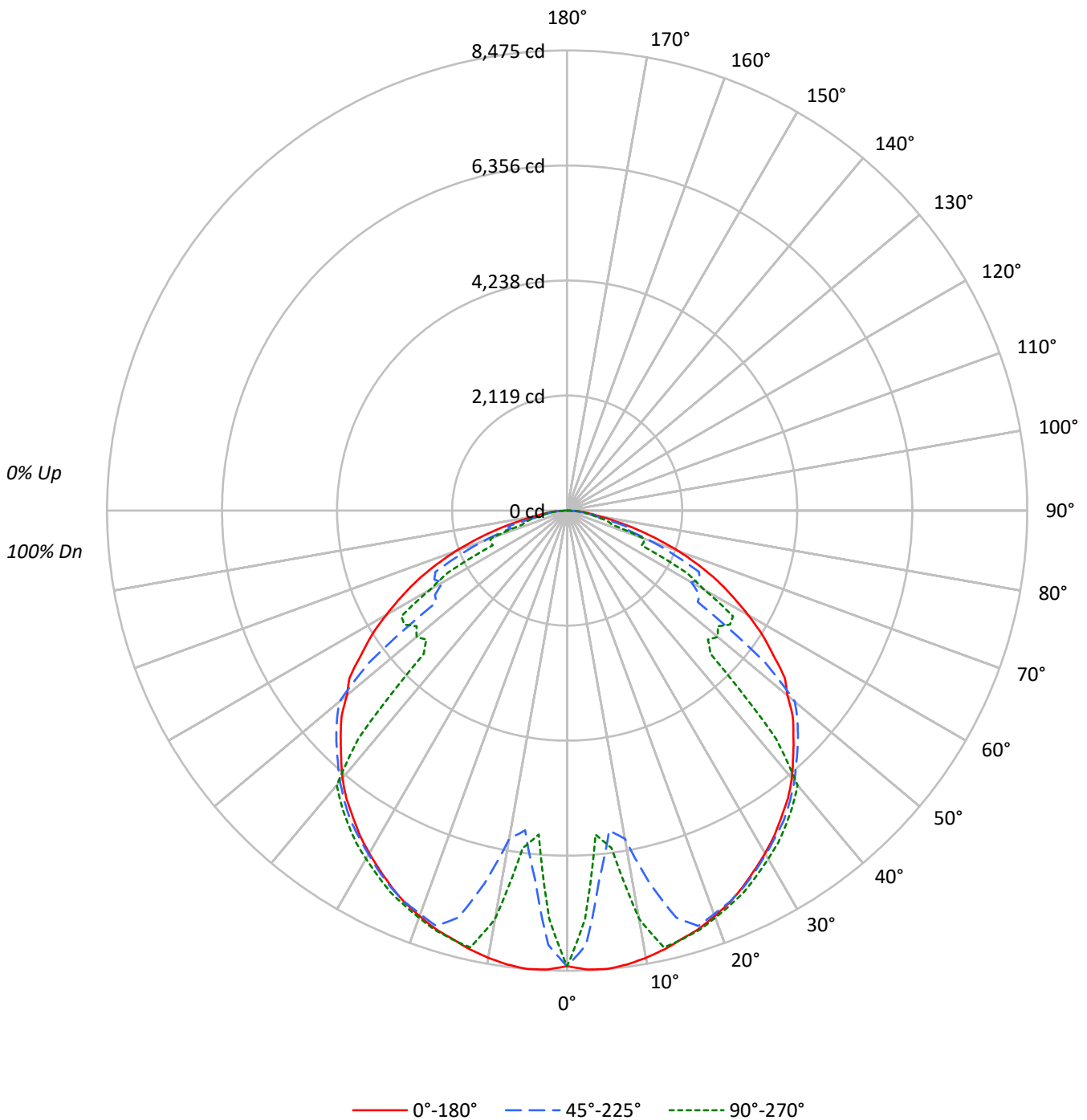
Lumens per Lamp: N/A
Luminaire Lumens: 22230.0 lumens
Efficiency: N/A
Efficacy: 151.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11290	11290	11290
5°	11447	9196	8088
10°	11427	8387	10431
15°	11377	10809	11387
20°	11377	11325	11426
25°	11356	11382	11486
30°	11324	11361	11507
35°	11306	11431	11564
40°	11307	11430	11594
45°	11218	11438	7108
50°	11091	11461	7576
55°	10857	6891	8586
60°	10357	7104	7863
65°	9705	8529	4811
70°	8569	6462	5897
75°	6828	5873	4089
80°	4703	4245	3514
85°	4508	3920	3717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	671.0	3.0
10°-20°	2102.1	9.5
20°-30°	3458.4	15.6
30°-40°	4348.6	19.6
40°-50°	4264.8	19.2
50°-60°	3533.6	15.9
60°-70°	2492.4	11.2
70°-80°	1087.4	4.9
80°-90°	271.7	1.2
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°	6231.6	28.0
0°-40°	10580.1	47.6
0°-60°	18378.6	82.7
0°-90°	22230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22230.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8391	8391	8391	8391	8391	
5°	8475	7888	6809	6174	5988	805
15°	8167	5672	7760	8200	8174	2310
25°	7650	6999	7667	7718	7737	3526
35°	6883	6879	6959	7006	7041	4312
45°	5896	5914	6011	5324	3736	4551
55°	4628	4780	2938	3340	3660	4141
65°	3048	3228	2679	2061	1511	2997
75°	1313	1287	1130	738	787	1408
85°	292	260	254	243	241	303
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8391.1	8391.1	8391.1	8391.1	8391.1
2.5°	8460.3	8284.7	8005.8	7654.6	7530.2
5°	8475.4	7888.4	6808.8	6173.7	5988.1
7.5°	8432.2	7169.0	5935.9	6069.3	6266.0
10°	8364.0	6536.9	6138.6	7222.2	7634.6
12.5°	8276.7	5975.0	7032.6	8158.3	8240.6
15°	8167.4	5672.0	7760.0	8199.5	8174.4
17.5°	8075.0	5849.6	8020.9	8117.2	8099.1
20°	7945.6	6203.8	7909.5	7986.7	7979.7
22.5°	7815.2	6623.2	7804.1	7859.3	7859.3
25°	7649.6	6999.4	7666.7	7717.8	7736.9
27.5°	7468.0	7216.2	7495.1	7537.2	7571.4
30°	7288.4	7247.3	7312.5	7366.7	7406.8
32.5°	7098.8	7082.7	7133.9	7191.1	7242.3
35°	6883.1	6879.0	6959.3	7005.5	7040.6
37.5°	6680.4	6666.3	6740.6	6804.8	6831.9
40°	6437.6	6437.6	6507.8	6573.0	6601.1
42.5°	6160.6	6199.8	6253.9	6321.2	5693.1
45°	5895.7	5913.8	6011.1	5323.8	3735.5
47.5°	5640.9	5664.0	5756.3	3422.5	3515.8
50°	5298.7	5403.1	5475.3	3412.4	3619.1
52.5°	5048.9	5094.1	4596.4	3378.3	3494.7
55°	4628.5	4780.0	2937.8	3340.2	3660.3
57.5°	4269.3	4379.7	2888.7	3422.5	3621.1
60°	3848.9	4017.5	2639.8	3302.1	2921.8
62.5°	3445.5	3606.1	2756.2	2598.7	2474.3
65°	3048.2	3227.8	2679.0	2060.9	1511.1
67.5°	2612.8	2445.2	2137.2	1451.9	1528.1
70°	2178.3	1707.7	1642.5	1623.4	1499.0
72.5°	1731.8	1246.2	1090.7	1218.1	871.9
75°	1313.4	1287.3	1129.8	738.5	786.6
77.5°	911.1	929.1	605.0	720.4	598.0
80°	607.0	525.8	547.8	459.5	453.5
82.5°	420.4	429.4	360.2	349.2	354.2
85°	292.0	259.9	253.9	242.8	240.8
87.5°	97.3	113.4	105.4	95.3	101.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)