

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-A-UNV-L750-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 (P23761)
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-A-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

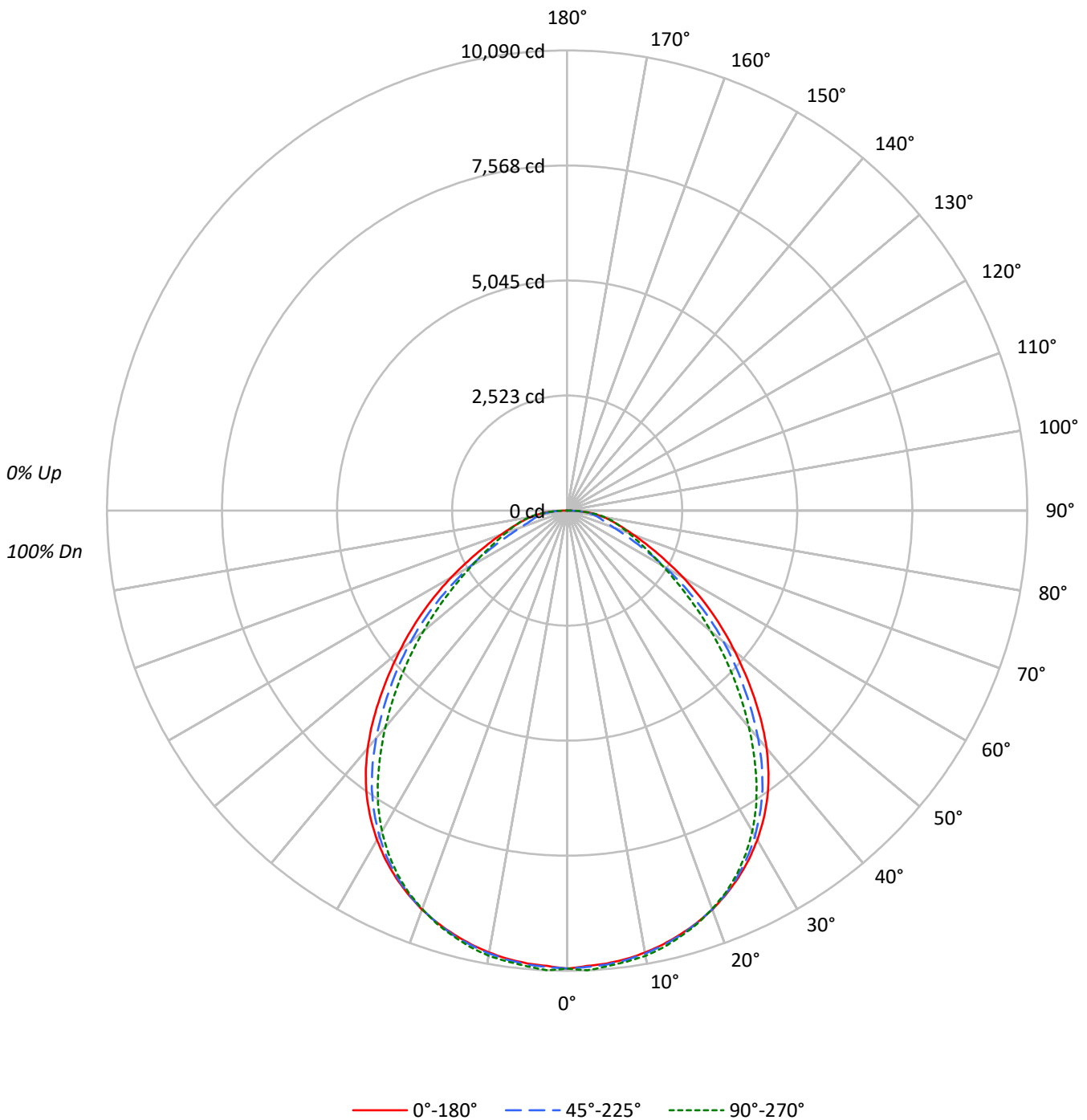
Lumens per Lamp: N/A
Luminaire Lumens: 23067.0 lumens
Efficiency: N/A
Efficacy: 157.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13511	13511	13511
5°	13463	13493	13549
10°	13444	13475	13543
15°	13399	13426	13457
20°	13329	13319	13309
25°	13184	13139	13065
30°	12956	12800	12613
35°	12580	12264	11886
40°	11954	11441	10892
45°	11044	10427	9796
50°	10039	9389	8617
55°	9027	8129	7449
60°	7899	6643	6463
65°	6811	5224	5833
70°	6072	4264	5622
75°	5817	4162	5875
80°	6292	4923	6546
85°	7063	5927	7132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	951.7	4.1
10°-20°	2723.6	11.8
20°-30°	4074.3	17.7
30°-40°	4648.4	20.2
40°-50°	4231.4	18.3
50°-60°	3107.1	13.5
60°-70°	1834.6	8.0
70°-80°	1051.4	4.6
80°-90°	444.5	1.9
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°	7749.6	33.6
0°-40°	12398.1	53.7
0°-60°	19736.5	85.6
0°-90°	23067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10042	10042	10042	10042	10042	
5°	9968	10030	9990	10030	10031	948
15°	9619	9672	9638	9672	9661	2714
25°	8881	8912	8850	8847	8800	4088
35°	7659	7621	7466	7338	7236	4772
45°	5804	5770	5480	5234	5148	4473
55°	3848	3670	3465	3214	3175	3441
65°	2139	1867	1641	1755	1832	2153
75°	1119	959	801	1044	1130	1206
85°	458	422	384	453	462	479
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10041.5	10041.5	10041.5	10041.5	10041.5
2.5°	9995.0	10052.8	10016.5	10056.2	10090.1
5°	9967.8	10030.1	9990.5	10030.1	10031.3
7.5°	9918.0	9975.8	9937.3	9980.3	9975.8
10°	9839.9	9897.6	9862.5	9909.0	9912.4
12.5°	9740.2	9795.7	9759.5	9812.7	9803.6
15°	9619.0	9672.3	9638.3	9672.3	9661.0
17.5°	9476.4	9525.1	9480.9	9518.3	9499.0
20°	9308.8	9349.5	9302.0	9337.1	9295.2
22.5°	9108.3	9144.6	9094.7	9114.0	9070.9
25°	8880.7	8912.4	8850.1	8846.7	8800.3
27.5°	8627.0	8644.0	8564.7	8537.6	8484.3
30°	8339.4	8343.9	8238.6	8187.6	8118.6
32.5°	8016.6	8005.3	7870.5	7794.7	7709.7
35°	7658.8	7621.4	7466.3	7338.3	7236.4
37.5°	7254.5	7195.6	7009.9	6820.8	6723.4
40°	6806.0	6737.0	6513.9	6279.4	6201.3
42.5°	6318.0	6259.1	5996.3	5751.7	5674.7
45°	5803.8	5769.8	5479.9	5234.2	5148.1
47.5°	5289.7	5264.8	4981.7	4731.4	4627.2
50°	4795.9	4741.6	4485.6	4211.6	4116.5
52.5°	4316.9	4205.9	3980.6	3699.7	3629.5
55°	3848.1	3670.3	3465.3	3213.9	3175.4
57.5°	3383.8	3153.9	2954.6	2766.6	2765.4
60°	2935.3	2672.6	2468.7	2370.2	2401.9
62.5°	2515.2	2245.7	2024.8	2031.6	2089.4
65°	2139.2	1867.4	1640.9	1755.3	1832.3
67.5°	1816.5	1557.1	1327.2	1540.1	1613.7
70°	1543.5	1309.1	1083.8	1349.9	1429.2
72.5°	1313.6	1116.6	913.9	1191.3	1271.7
75°	1118.9	959.2	800.6	1044.1	1130.2
77.5°	960.3	818.8	718.0	903.7	993.2
80°	812.0	687.4	635.3	767.8	844.8
82.5°	643.2	557.2	526.6	624.0	663.6
85°	457.5	422.4	383.9	453.0	462.0
87.5°	251.4	260.5	215.2	260.5	261.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)