

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

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

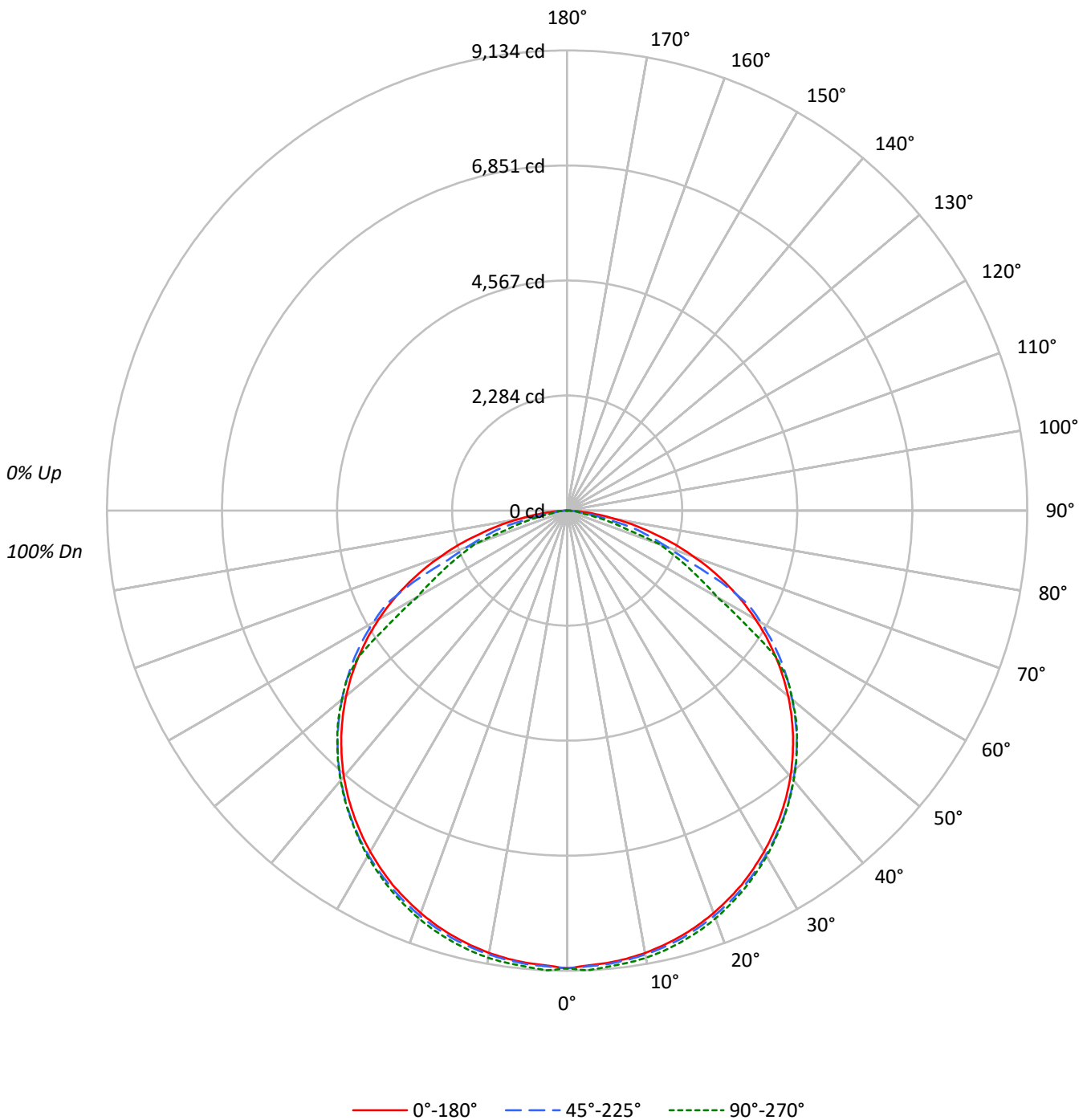
Lumens per Lamp: N/A  
Luminaire Lumens: 26231.0 lumens  
Efficiency: N/A  
Efficacy: 179.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P#  
CATALOG NUMBER: HBLED-LD5-24HE-W-UNV-L750-ED2-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-24HE-W-UNV-L750-ED2-U

**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°	12225	12225	12225
5°	12175	12209	12278
10°	12182	12225	12317
15°	12179	12244	12329
20°	12172	12250	12336
25°	12168	12255	12323
30°	12147	12265	12311
35°	12131	12271	12287
40°	12109	12270	12289
45°	12064	12265	12279
50°	11992	12213	12211
55°	11852	12148	11847
60°	11632	11969	9269
65°	11244	10772	8351
70°	10534	8288	7697
75°	9327	7226	4797
80°	7681	4254	2144
85°	5062	2606	2808



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-24HE-W-UNV-L750-ED2-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	862.2	3.3
10°-20°	2487.6	9.5
20°-30°	3813.8	14.5
30°-40°	4677.3	17.8
40°-50°	4966.5	18.9
50°-60°	4536.3	17.3
60°-70°	3159.1	12.0
70°-80°	1473.4	5.6
80°-90°	254.9	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°	7163.7	27.3
0°-40°	11840.9	45.1
0°-60°	21343.7	81.4
0°-90°	26231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26231.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9086	9086	9086	9086	9086	
5°	9014	9078	9039	9083	9090	858
15°	8743	8804	8790	8843	8851	2469
25°	8196	8268	8255	8316	8301	3777
35°	7386	7471	7471	7521	7480	4622
45°	6340	6436	6446	6487	6453	4890
55°	5052	5154	5179	5187	5050	4512
65°	3532	3641	3384	2691	2623	3485
75°	1794	1907	1390	963	923	1918
85°	328	216	169	181	182	424
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-24HE-W-UNV-L750-ED2-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9086.2	9086.2	9086.2	9086.2	9086.2
2.5°	9038.2	9096.0	9057.9	9099.3	9134.1
5°	9014.3	9077.5	9039.3	9082.9	9090.5
7.5°	8975.1	9035.0	9000.1	9048.1	9060.0
10°	8916.2	8975.1	8947.8	9004.5	9015.4
12.5°	8836.7	8896.6	8875.9	8938.0	8945.7
15°	8743.0	8804.0	8789.9	8843.3	8850.9
17.5°	8633.0	8696.2	8679.9	8736.5	8741.9
20°	8501.2	8569.8	8555.7	8622.1	8615.6
22.5°	8353.1	8426.0	8415.1	8481.6	8462.0
25°	8196.2	8268.1	8255.0	8316.0	8300.8
27.5°	8012.1	8091.6	8079.6	8138.5	8114.5
30°	7818.2	7898.8	7894.4	7947.8	7923.9
32.5°	7609.0	7695.1	7690.7	7743.0	7706.0
35°	7385.7	7470.7	7470.7	7520.8	7480.5
37.5°	7149.3	7235.4	7236.5	7284.4	7246.3
40°	6894.4	6980.5	6985.9	7031.7	6996.8
42.5°	6626.5	6720.1	6724.5	6765.9	6733.2
45°	6340.0	6435.8	6445.6	6487.0	6453.2
47.5°	6040.4	6137.3	6146.1	6190.7	6166.8
50°	5728.8	5822.5	5834.5	5871.5	5833.4
52.5°	5399.9	5495.7	5512.1	5534.9	5517.5
55°	5052.4	5153.7	5178.7	5187.4	5050.2
57.5°	4692.9	4796.4	4820.3	4619.9	4178.7
60°	4322.5	4424.9	4447.8	3758.2	3444.5
62.5°	3936.9	4037.1	4062.1	3114.4	3014.2
65°	3531.6	3640.6	3383.5	2690.7	2623.1
67.5°	3115.5	3227.7	2558.9	2306.1	2265.8
70°	2677.6	2790.9	2106.8	1966.3	1956.5
72.5°	2257.1	2341.0	1728.8	1490.2	1254.9
75°	1794.1	1907.4	1390.0	963.0	922.7
77.5°	1391.1	1202.6	838.8	705.9	556.7
80°	991.3	803.9	549.0	293.0	276.7
82.5°	628.5	525.1	215.7	221.1	230.9
85°	327.9	215.7	168.8	180.8	181.9
87.5°	105.7	92.6	101.3	100.2	99.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)