

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

Luminaire Equipment: Sample No. Condition Description

Summary

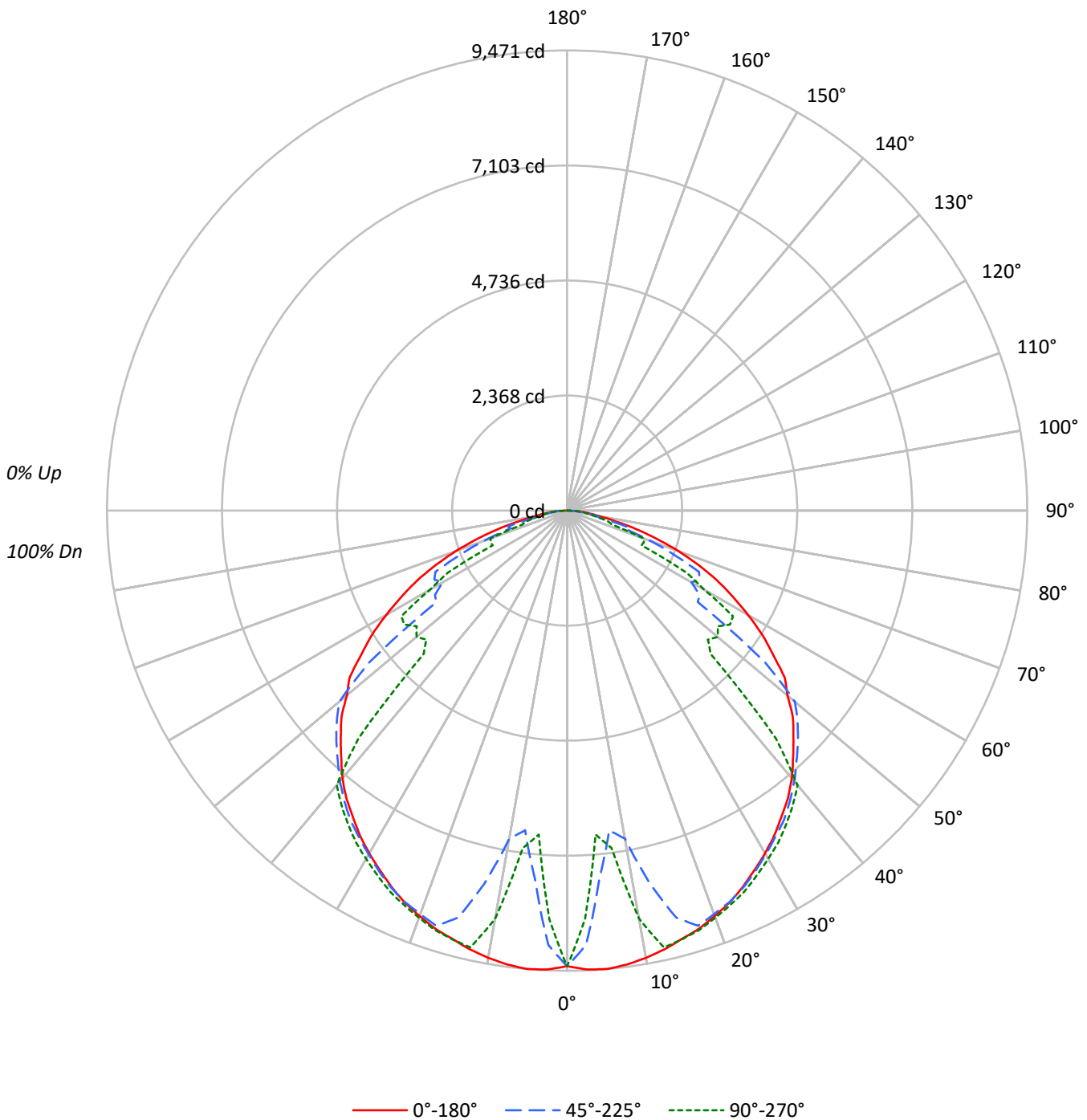
Lumens per Lamp: N/A
Luminaire Lumens: 24841.0 lumens
Efficiency: N/A
Efficacy: 169.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



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

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-24HE-W-WG-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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12616	12616	12616
5°	12792	10276	9038
10°	12769	9372	11656
15°	12713	12079	12724
20°	12713	12655	12768
25°	12690	12719	12835
30°	12654	12695	12859
35°	12634	12774	12923
40°	12635	12773	12956
45°	12536	12782	7943
50°	12394	12807	8465
55°	12133	7701	9595
60°	11574	7938	8786
65°	10844	9531	5376
70°	9576	7220	6590
75°	7630	6563	4570
80°	5256	4744	3927
85°	5037	4380	4154



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.8	3.0
10°-20°	2349.0	9.5
20°-30°	3864.7	15.6
30°-40°	4859.3	19.6
40°-50°	4765.8	19.2
50°-60°	3948.7	15.9
60°-70°	2785.1	11.2
70°-80°	1215.1	4.9
80°-90°	303.6	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°	6963.5	28.0
0°-40°	11822.8	47.6
0°-60°	20537.2	82.7
0°-90°	24841.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24841.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9377	9377	9377	9377	9377	
5°	9471	8815	7608	6899	6691	899
15°	9127	6338	8671	9162	9134	2581
25°	8548	7822	8567	8624	8646	3940
35°	7692	7687	7777	7828	7868	4819
45°	6588	6608	6717	5949	4174	5085
55°	5172	5341	3283	3732	4090	4628
65°	3406	3607	2994	2303	1688	3349
75°	1468	1438	1262	825	879	1574
85°	326	290	284	271	269	338
90°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9376.7	9376.7	9376.7	9376.7	9376.7
2.5°	9454.0	9257.8	8946.1	8553.7	8414.7
5°	9470.9	8814.9	7608.5	6898.8	6691.4
7.5°	9422.6	8011.0	6633.1	6782.2	7001.9
10°	9346.4	7304.7	6859.6	8070.5	8531.3
12.5°	9248.9	6676.8	7858.6	9116.5	9208.5
15°	9126.6	6338.2	8671.4	9162.5	9134.5
17.5°	9023.5	6536.6	8962.9	9070.6	9050.4
20°	8878.9	6932.4	8838.5	8924.8	8917.0
22.5°	8733.1	7401.1	8720.8	8782.4	8782.4
25°	8548.1	7821.6	8567.2	8624.3	8645.6
27.5°	8345.2	8063.7	8375.4	8422.5	8460.6
30°	8144.5	8098.5	8171.4	8231.9	8276.8
32.5°	7932.6	7914.6	7971.8	8035.7	8092.9
35°	7691.5	7687.0	7776.7	7828.3	7867.5
37.5°	7465.0	7449.3	7532.3	7604.0	7634.3
40°	7193.7	7193.7	7272.2	7345.0	7376.4
42.5°	6884.2	6927.9	6988.5	7063.6	6361.7
45°	6588.2	6608.4	6717.2	5949.1	4174.3
47.5°	6303.4	6329.2	6432.4	3824.4	3928.7
50°	5921.1	6037.7	6118.4	3813.2	4044.2
52.5°	5641.9	5692.4	5136.3	3775.1	3905.2
55°	5172.1	5341.4	3282.9	3732.5	4090.2
57.5°	4770.7	4894.1	3228.0	3824.4	4046.4
60°	4301.0	4489.3	2949.9	3689.9	3265.0
62.5°	3850.2	4029.6	3080.0	2903.9	2764.9
65°	3406.2	3606.9	2993.6	2303.0	1688.5
67.5°	2919.6	2732.4	2388.2	1622.4	1707.6
70°	2434.1	1908.3	1835.4	1814.1	1675.1
72.5°	1935.2	1392.5	1218.8	1361.1	974.3
75°	1467.7	1438.5	1262.5	825.2	879.0
77.5°	1018.1	1038.2	676.1	805.0	668.2
80°	678.3	587.5	612.2	513.5	506.8
82.5°	469.8	479.9	402.5	390.2	395.8
85°	326.3	290.4	283.7	271.3	269.1
87.5°	108.8	126.7	117.7	106.5	113.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)