

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-CLI-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 (P23766)  
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-CLI-UNV-L750-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

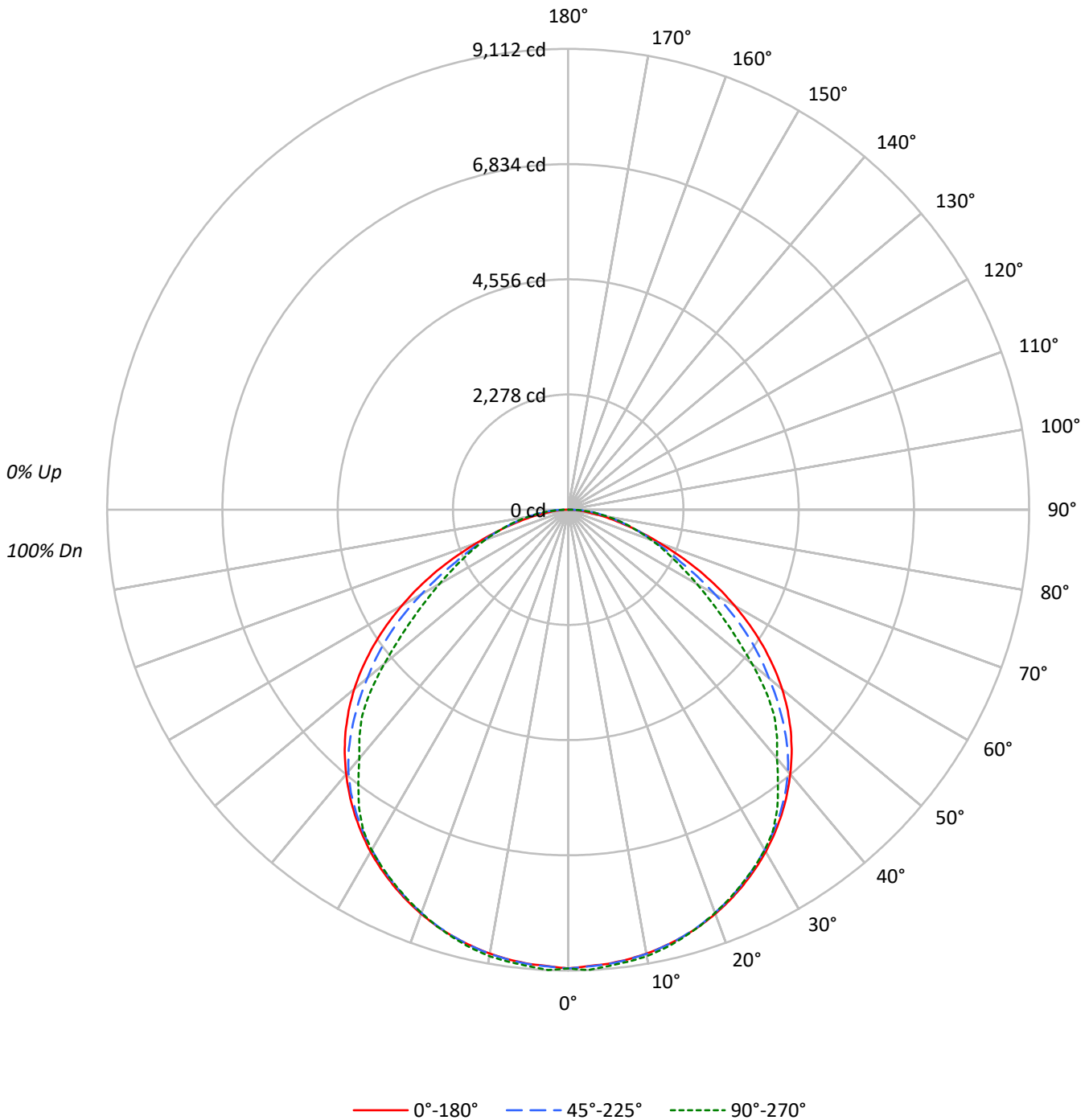
Lumens per Lamp: N/A  
Luminaire Lumens: 24369.0 lumens  
Efficiency: N/A  
Efficacy: 166.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12204	12204	12204
5°	12171	12180	12234
10°	12178	12184	12248
15°	12179	12178	12207
20°	12177	12148	12151
25°	12158	12113	12098
30°	12138	12065	12072
35°	12081	12006	11836
40°	11995	11873	11274
45°	11843	11464	10962
50°	11558	10854	9928
55°	11032	10151	8779
60°	10238	9057	7917
65°	9100	7841	7280
70°	7552	7008	6862
75°	6108	6413	6492
80°	4851	6134	6108
85°	3799	6589	6286



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	860.2	3.5
10°-20°	2474.2	10.2
20°-30°	3772.8	15.5
30°-40°	4564.5	18.7
40°-50°	4623.4	19.0
50°-60°	3821.4	15.7
60°-70°	2523.9	10.4
70°-80°	1316.1	5.4
80°-90°	412.6	1.7
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°	7107.1	29.2
0°-40°	11671.6	47.9
0°-60°	20116.4	82.5
0°-90°	24369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24369.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9070	9070	9070	9070	9070	
5°	9012	9066	9018	9057	9058	857
15°	8744	8788	8742	8770	8763	2469
25°	8189	8222	8159	8180	8149	3776
35°	7355	7365	7310	7300	7206	4601
45°	6224	6208	6025	5837	5761	4793
55°	4703	4633	4327	3907	3742	4192
65°	2858	2776	2463	2303	2287	2823
75°	1175	1196	1234	1250	1249	1280
85°	246	317	427	424	407	299
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9070.3	9070.3	9070.3	9070.3	9070.3
2.5°	9032.2	9085.5	9040.9	9080.1	9111.7
5°	9011.5	9065.9	9018.0	9057.2	9058.3
7.5°	8971.2	9025.6	8976.6	9015.8	9014.7
10°	8913.5	8964.7	8917.8	8964.7	8964.7
12.5°	8835.1	8885.2	8839.4	8883.0	8876.5
15°	8743.6	8788.3	8742.5	8769.8	8763.2
17.5°	8635.8	8676.1	8624.9	8647.8	8634.7
20°	8504.1	8541.1	8484.5	8513.9	8486.6
22.5°	8356.0	8390.8	8333.1	8354.9	8324.4
25°	8189.4	8222.1	8158.9	8179.6	8149.1
27.5°	8009.7	8039.1	7968.3	7993.4	7969.4
30°	7812.6	7826.8	7765.8	7798.5	7770.2
32.5°	7592.7	7601.4	7548.0	7577.4	7529.5
35°	7355.3	7365.1	7309.6	7299.8	7206.1
37.5°	7101.6	7106.0	7053.7	6965.5	6810.9
40°	6829.4	6827.2	6759.7	6556.1	6418.9
42.5°	6538.7	6537.6	6418.9	6187.0	6108.6
45°	6224.0	6207.6	6024.7	5837.4	5761.2
47.5°	5886.4	5869.0	5613.1	5463.9	5290.8
50°	5521.7	5491.2	5185.2	4981.6	4743.1
52.5°	5128.6	5081.8	4770.3	4441.5	4216.1
55°	4702.8	4633.1	4327.2	3906.9	3742.4
57.5°	4259.7	4156.2	3859.0	3449.5	3315.6
60°	3804.5	3689.1	3365.7	3029.2	2942.1
62.5°	3336.3	3222.0	2892.0	2638.3	2590.4
65°	2858.3	2775.5	2463.0	2303.0	2286.6
67.5°	2368.3	2338.9	2100.4	2018.8	2012.2
70°	1919.7	1914.2	1781.4	1740.0	1744.4
72.5°	1534.2	1527.7	1508.1	1487.4	1488.5
75°	1174.9	1195.6	1233.7	1250.0	1248.9
77.5°	876.5	919.0	999.6	1032.2	1026.8
80°	626.1	689.3	791.6	822.1	788.3
82.5°	417.0	483.5	604.3	608.7	581.5
85°	246.1	316.9	426.8	423.6	407.2
87.5°	122.0	190.6	255.9	245.0	234.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)