

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-LD5-24SE-W-AI-UNV-L740-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 (P23765)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-24SE-W-AI-UNV-L740-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

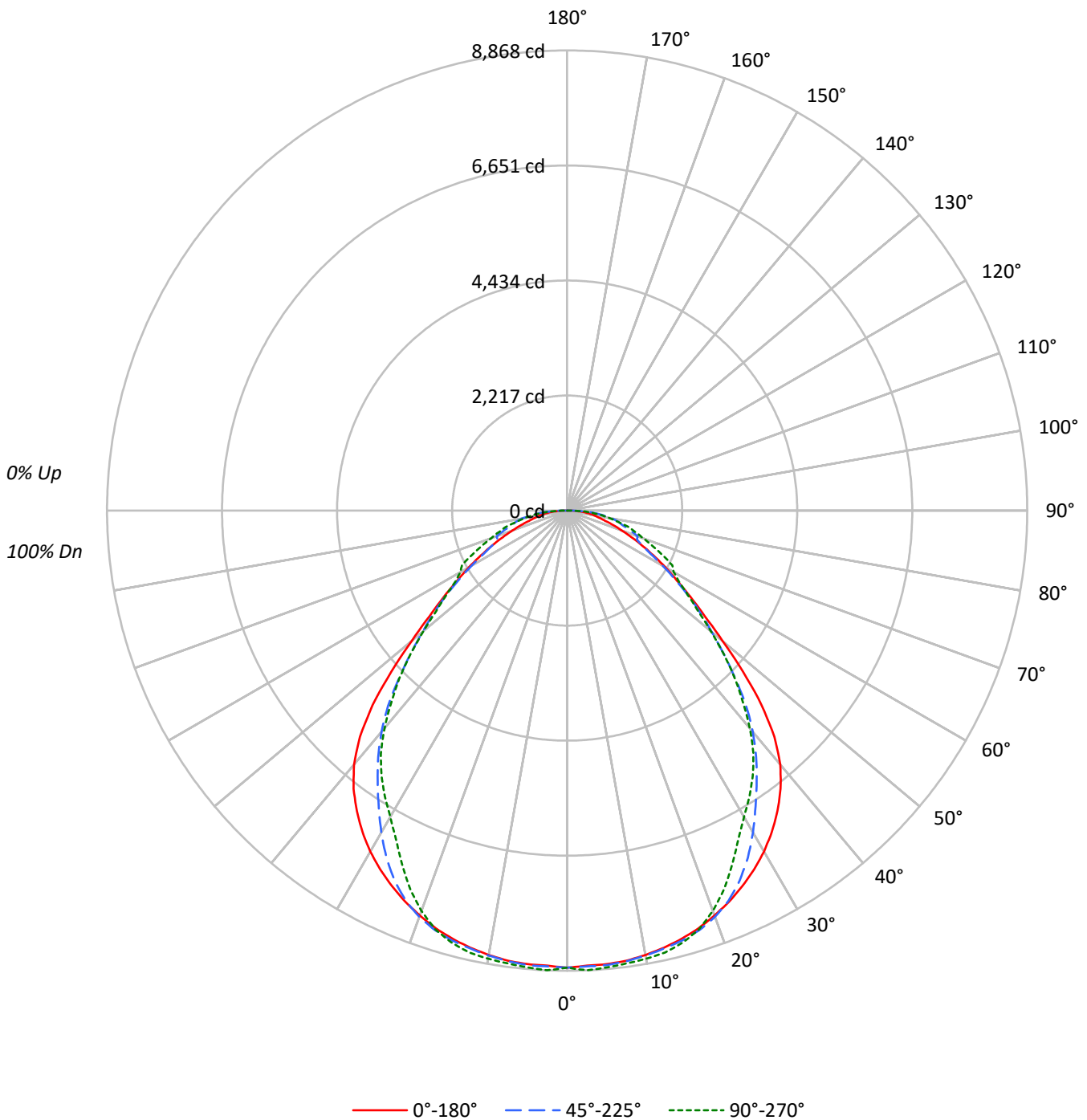
Lumens per Lamp: N/A  
Luminaire Lumens: 20389.0 lumens  
Efficiency: N/A  
Efficacy: 132.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 154  
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	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

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

	0°	45°	90°
0°	11852	11852	11852
5°	11851	11877	11935
10°	11881	11896	11983
15°	11899	11944	12002
20°	11887	11931	11754
25°	11857	11679	11171
30°	11787	11128	10586
35°	11610	10460	10242
40°	11221	9780	9618
45°	10086	8733	8700
50°	8180	7606	7554
55°	6793	6666	6664
60°	5881	5709	6383
65°	5097	5065	6434
70°	4395	5682	6133
75°	3941	5823	6394
80°	4097	6856	6415
85°	4650	7900	7330



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	838.7	4.1
10°-20°	2422.2	11.9
20°-30°	3597.5	17.6
30°-40°	4084.2	20.0
40°-50°	3651.1	17.9
50°-60°	2524.4	12.4
60°-70°	1665.7	8.2
70°-80°	1123.8	5.5
80°-90°	481.3	2.4
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°	6858.5	33.6
0°-40°	10942.7	53.7
0°-60°	17118.2	84.0
0°-90°	20389.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20389.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8809	8809	8809	8809	8809	
5°	8775	8829	8794	8830	8837	835
15°	8542	8583	8574	8622	8616	2411
25°	7987	8063	7867	7633	7525	3680
35°	7068	6920	6368	6275	6235	4408
45°	5301	4852	4589	4624	4572	4031
55°	2896	2643	2842	2802	2841	2630
65°	1601	1421	1591	1860	2021	1598
75°	758	954	1120	1197	1230	828
85°	301	419	512	515	475	314
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8808.7	8808.7	8808.7	8808.7	8808.7
2.5°	8778.8	8833.6	8792.7	8830.6	8867.5
5°	8774.8	8828.6	8793.7	8829.6	8836.6
7.5°	8749.8	8799.7	8758.8	8793.7	8801.7
10°	8696.0	8754.8	8706.9	8760.8	8770.8
12.5°	8626.1	8686.0	8644.1	8717.9	8721.9
15°	8542.4	8583.2	8574.3	8622.2	8616.2
17.5°	8436.6	8483.5	8476.5	8488.5	8460.6
20°	8302.0	8354.8	8332.9	8278.0	8209.2
22.5°	8157.3	8221.2	8134.4	7995.7	7899.0
25°	7986.8	8062.6	7867.1	7632.7	7524.9
27.5°	7798.2	7866.1	7540.9	7253.6	7141.9
30°	7586.8	7615.7	7162.8	6889.5	6813.7
32.5°	7342.4	7300.5	6758.9	6578.3	6534.4
35°	7068.1	6919.5	6367.9	6275.1	6235.2
37.5°	6758.9	6486.6	5981.8	5939.0	5897.1
40°	6388.8	5986.8	5567.9	5540.0	5476.1
42.5°	5911.0	5443.2	5108.1	5075.1	5018.3
45°	5300.6	4851.7	4589.4	4624.3	4572.4
47.5°	4598.3	4258.2	4091.6	4187.4	4091.6
50°	3908.1	3679.7	3633.8	3720.6	3608.9
52.5°	3342.5	3137.1	3231.8	3246.8	3179.9
55°	2895.7	2643.3	2841.8	2801.9	2840.8
57.5°	2506.6	2224.4	2468.7	2422.9	2556.5
60°	2185.5	1868.3	2121.6	2111.6	2372.0
62.5°	1870.3	1616.9	1820.4	1967.0	2287.2
65°	1600.9	1421.4	1591.0	1860.3	2020.9
67.5°	1342.6	1274.8	1455.3	1604.9	1780.5
70°	1117.2	1152.1	1444.3	1416.4	1559.0
72.5°	927.6	1046.3	1274.8	1279.8	1380.5
75°	758.1	953.6	1120.2	1197.0	1229.9
77.5°	630.4	864.8	1011.4	1038.4	1006.4
80°	528.7	762.1	884.8	872.8	827.9
82.5°	426.9	577.5	697.2	708.2	655.3
85°	301.2	418.9	511.7	514.7	474.8
87.5°	161.6	258.3	310.2	319.2	295.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)