

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-A-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 (P23761)  
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-A-UNV-L740-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

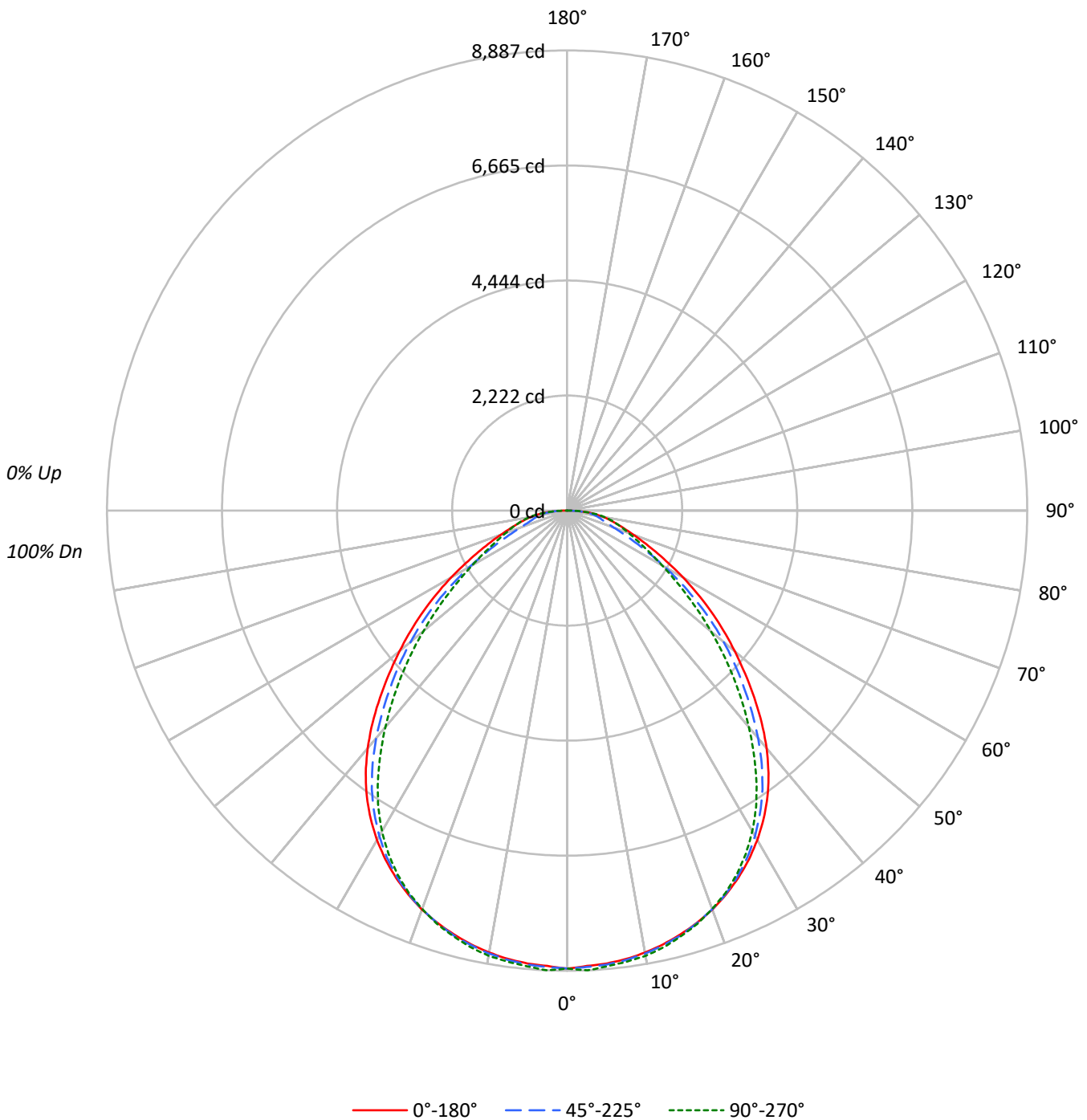
Lumens per Lamp: N/A  
Luminaire Lumens: 20317.0 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	11900	11900	11900
5°	11858	11885	11933
10°	11841	11868	11928
15°	11802	11825	11853
20°	11740	11731	11722
25°	11612	11572	11507
30°	11412	11274	11110
35°	11080	10802	10469
40°	10529	10077	9594
45°	9727	9184	8628
50°	8842	8270	7589
55°	7951	7160	6561
60°	6957	5851	5693
65°	5999	4601	5138
70°	5348	3755	4952
75°	5123	3666	5175
80°	5542	4336	5766
85°	6221	5220	6283



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	838.2	4.1
10°-20°	2398.9	11.8
20°-30°	3588.6	17.7
30°-40°	4094.3	20.2
40°-50°	3726.9	18.3
50°-60°	2736.6	13.5
60°-70°	1615.9	8.0
70°-80°	926.0	4.6
80°-90°	391.5	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°	6825.7	33.6
0°-40°	10920.0	53.7
0°-60°	17383.6	85.6
0°-90°	20317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20317.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8844	8844	8844	8844	8844	
5°	8780	8834	8799	8834	8835	835
15°	8472	8519	8489	8519	8509	2391
25°	7822	7850	7795	7792	7751	3601
35°	6746	6713	6576	6463	6374	4203
45°	5112	5082	4827	4610	4534	3940
55°	3389	3233	3052	2831	2797	3031
65°	1884	1645	1445	1546	1614	1896
75°	986	845	705	920	995	1062
85°	403	372	338	399	407	421
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8844.3	8844.3	8844.3	8844.3	8844.3
2.5°	8803.4	8854.3	8822.4	8857.3	8887.2
5°	8779.5	8834.4	8799.4	8834.4	8835.4
7.5°	8735.6	8786.5	8752.6	8790.5	8786.5
10°	8666.8	8717.7	8686.7	8727.6	8730.6
12.5°	8579.0	8627.9	8596.0	8642.8	8634.9
15°	8472.3	8519.2	8489.2	8519.2	8509.2
17.5°	8346.6	8389.5	8350.6	8383.5	8366.6
20°	8199.0	8234.9	8193.0	8223.9	8187.0
22.5°	8022.4	8054.4	8010.5	8027.4	7989.5
25°	7822.0	7849.9	7795.0	7792.0	7751.1
27.5°	7598.5	7613.5	7543.7	7519.7	7472.8
30°	7345.2	7349.2	7256.4	7211.5	7150.7
32.5°	7060.9	7050.9	6932.2	6865.4	6790.6
35°	6745.7	6712.8	6576.1	6463.4	6373.7
37.5°	6389.6	6337.8	6174.2	6007.6	5921.8
40°	5994.6	5933.8	5737.3	5530.8	5462.0
42.5°	5564.7	5512.9	5281.5	5066.0	4998.2
45°	5111.9	5082.0	4826.6	4610.2	4534.4
47.5°	4659.1	4637.1	4387.8	4167.3	4075.6
50°	4224.2	4176.3	3950.9	3709.5	3625.7
52.5°	3802.3	3704.5	3506.0	3258.6	3196.8
55°	3389.3	3232.7	3052.2	2830.7	2796.8
57.5°	2980.4	2777.9	2602.3	2436.8	2435.8
60°	2585.4	2354.0	2174.4	2087.6	2115.6
62.5°	2215.3	1977.9	1783.4	1789.4	1840.3
65°	1884.2	1644.8	1445.3	1546.0	1613.9
67.5°	1599.9	1371.5	1169.0	1356.5	1421.4
70°	1359.5	1153.0	954.6	1189.0	1258.8
72.5°	1157.0	983.5	804.9	1049.3	1120.1
75°	985.5	844.8	705.2	919.6	995.4
77.5°	845.8	721.2	632.4	796.0	874.8
80°	715.2	605.4	559.6	676.3	744.1
82.5°	566.5	490.7	463.8	549.6	584.5
85°	403.0	372.0	338.1	399.0	407.0
87.5°	221.4	229.4	189.5	229.4	230.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)