

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-CL-UNV-L735-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 (P23762)  
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-CL-UNV-L735-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

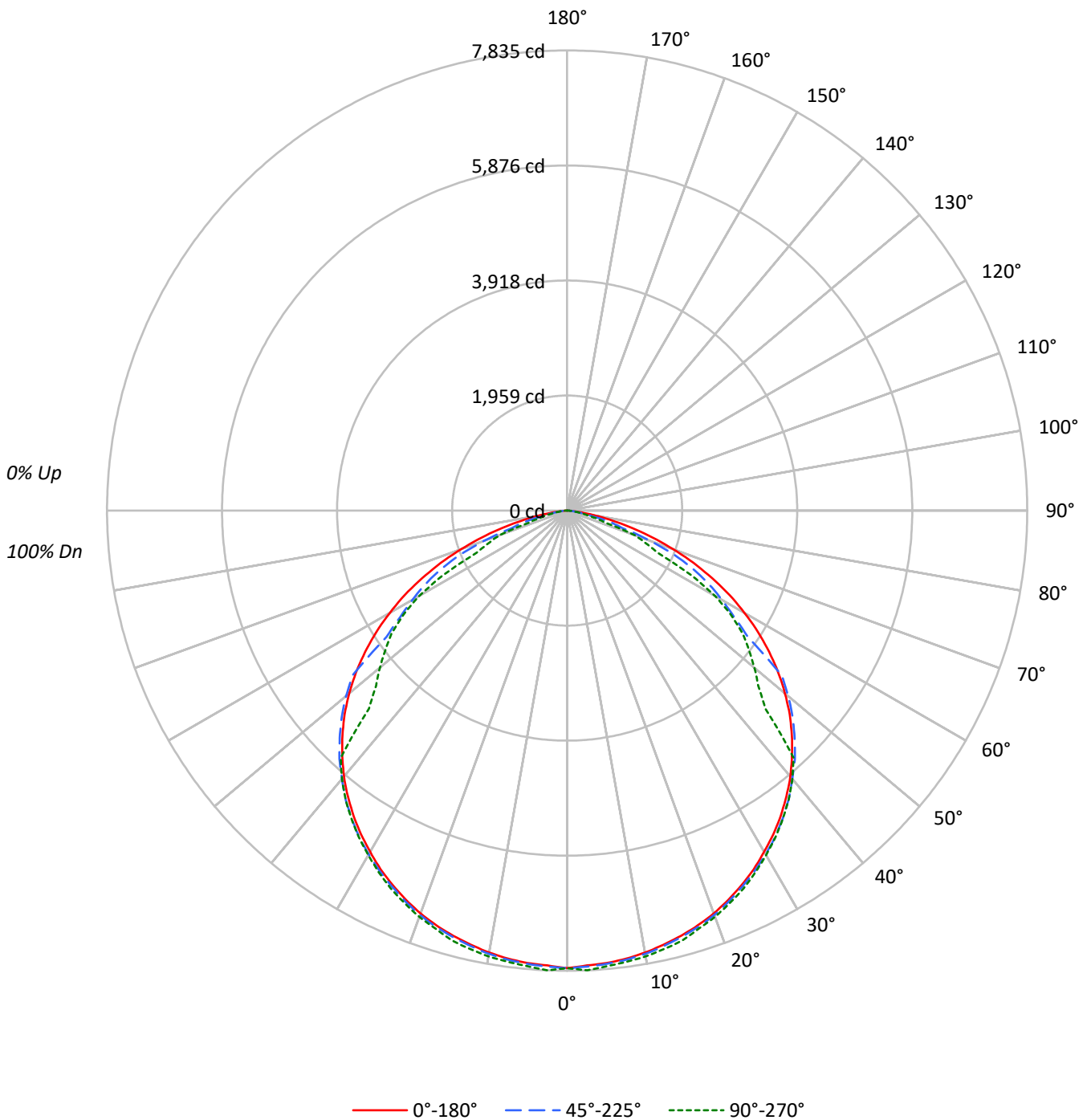
Lumens per Lamp: N/A  
Luminaire Lumens: 21058.0 lumens  
Efficiency: N/A  
Efficacy: 136.7 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64					62				
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55					53				
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48					46				
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42					40				
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38					36				
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34					32				
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30					29				
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28					26				

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

	0°	45°	90°
0°	10480	10480	10480
5°	10442	10465	10517
10°	10441	10471	10532
15°	10441	10472	10557
20°	10454	10493	10542
25°	10442	10481	10544
30°	10422	10499	10522
35°	10417	10512	10520
40°	10385	10476	10476
45°	10296	10420	9079
50°	10137	10289	8711
55°	9849	8808	8557
60°	9387	8187	7817
65°	8681	7600	5414
70°	7559	5914	4824
75°	5971	3969	2594
80°	3843	1896	1616
85°	1581	1156	1274



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	738.9	3.5
10°-20°	2129.7	10.1
20°-30°	3265.2	15.5
30°-40°	4002.0	19.0
40°-50°	4114.3	19.5
50°-60°	3511.4	16.7
60°-70°	2321.4	11.0
70°-80°	860.1	4.1
80°-90°	115.0	0.5
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°	6133.8	29.1
0°-40°	10135.7	48.1
0°-60°	17761.5	84.3
0°-90°	21058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21058.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7789	7789	7789	7789	7789	
5°	7731	7786	7748	7779	7786	735
15°	7495	7541	7518	7575	7579	2117
25°	7033	7070	7060	7124	7103	3243
35°	6342	6386	6400	6440	6405	3967
45°	5411	5465	5476	5468	4771	4170
55°	4199	4275	3755	3646	3648	3746
65°	2727	2749	2387	1963	1700	2689
75°	1148	1006	764	513	499	1232
85°	102	73	75	82	82	169
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7789.3	7789.3	7789.3	7789.3	7789.3
2.5°	7751.3	7799.7	7771.3	7807.3	7834.8
5°	7731.4	7785.5	7748.5	7778.8	7786.4
7.5°	7697.3	7747.5	7713.4	7753.2	7747.5
10°	7642.3	7687.8	7664.1	7705.8	7708.7
12.5°	7572.1	7617.6	7595.8	7647.0	7646.1
15°	7495.3	7540.8	7518.0	7574.9	7578.7
17.5°	7405.2	7446.9	7429.8	7482.0	7461.1
20°	7300.8	7336.9	7328.3	7377.7	7362.5
22.5°	7172.8	7209.8	7201.3	7258.2	7235.4
25°	7033.4	7070.4	7059.9	7123.5	7102.6
27.5°	6882.6	6917.7	6916.7	6976.5	6944.2
30°	6708.1	6754.6	6757.4	6810.5	6772.6
32.5°	6535.5	6579.1	6591.4	6630.3	6598.1
35°	6342.0	6385.6	6399.9	6439.7	6404.6
37.5°	6133.4	6170.3	6195.9	6225.4	6197.8
40°	5912.4	5945.6	5964.5	6000.6	5964.5
42.5°	5665.8	5713.2	5739.8	5765.4	5706.6
45°	5410.7	5464.7	5476.1	5467.6	4771.4
47.5°	5140.4	5199.2	5205.8	4540.0	4412.0
50°	4842.6	4916.5	4915.6	4195.8	4161.6
52.5°	4532.4	4603.6	4600.7	3926.4	3903.6
55°	4198.6	4275.4	3754.7	3645.7	3647.6
57.5°	3858.1	3913.1	3368.7	3373.5	3310.9
60°	3488.2	3540.4	3042.5	3013.1	2905.0
62.5°	3117.4	3139.2	2726.7	2583.5	2377.7
65°	2726.7	2749.4	2387.1	1963.2	1700.5
67.5°	2325.5	2348.3	1981.2	1460.5	1440.6
70°	1921.5	1735.6	1503.2	1216.8	1226.3
72.5°	1523.1	1333.5	982.6	942.7	681.0
75°	1148.5	1006.3	763.5	513.1	498.9
77.5°	799.5	693.3	408.8	350.0	327.2
80°	496.0	348.1	244.7	217.2	208.6
82.5°	251.3	200.1	132.8	132.8	132.8
85°	102.4	73.0	74.9	81.6	82.5
87.5°	21.8	29.4	36.0	37.0	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)