

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-L835-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-L835-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

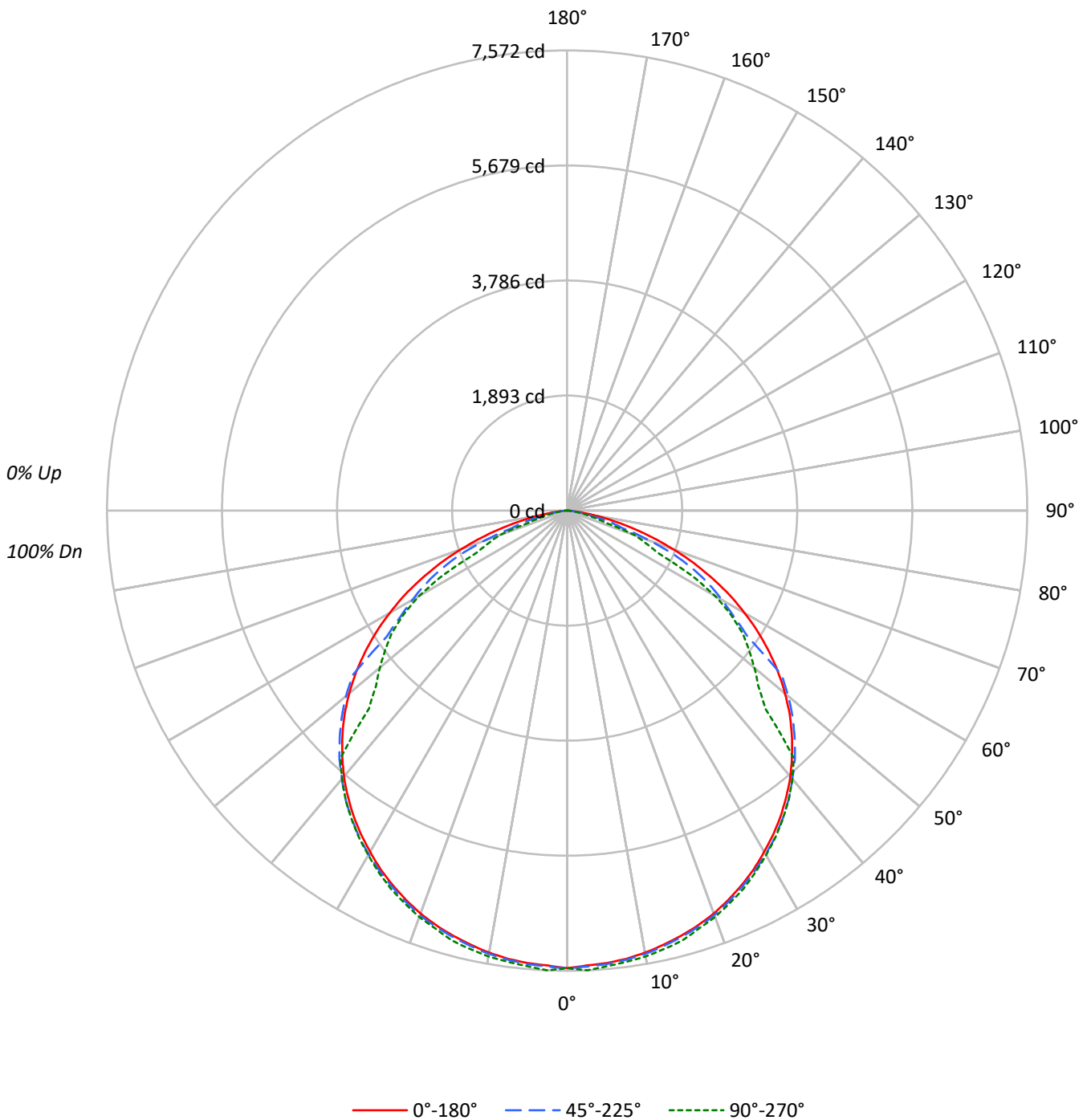
Lumens per Lamp: N/A  
Luminaire Lumens: 20352.0 lumens  
Efficiency: N/A  
Efficacy: 132.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	10129	10129	10129
5°	10092	10114	10164
10°	10091	10120	10179
15°	10091	10121	10203
20°	10103	10141	10189
25°	10092	10130	10191
30°	10073	10147	10169
35°	10068	10160	10167
40°	10036	10125	10125
45°	9950	10071	8775
50°	9797	9944	8419
55°	9519	8513	8270
60°	9072	7913	7555
65°	8390	7345	5232
70°	7306	5715	4663
75°	5770	3836	2506
80°	3715	1832	1563
85°	1528	1118	1230



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	714.1	3.5
10°-20°	2058.3	10.1
20°-30°	3155.7	15.5
30°-40°	3867.8	19.0
40°-50°	3976.4	19.5
50°-60°	3393.7	16.7
60°-70°	2243.6	11.0
70°-80°	831.2	4.1
80°-90°	111.1	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°	5928.1	29.1
0°-40°	9795.9	48.1
0°-60°	17166.0	84.3
0°-90°	20352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20352.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7528	7528	7528	7528	7528	
5°	7472	7524	7489	7518	7525	711
15°	7244	7288	7266	7321	7325	2046
25°	6798	6833	6823	6885	6864	3134
35°	6129	6172	6185	6224	6190	3834
45°	5229	5282	5292	5284	4612	4030
55°	4058	4132	3629	3524	3525	3621
65°	2635	2657	2307	1897	1644	2598
75°	1110	972	738	496	482	1191
85°	99	71	72	79	80	164
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7528.1	7528.1	7528.1	7528.1	7528.1
2.5°	7491.5	7538.2	7510.7	7545.5	7572.1
5°	7472.2	7524.5	7488.7	7518.0	7525.4
7.5°	7439.2	7487.8	7454.8	7493.3	7487.8
10°	7386.1	7430.1	7407.1	7447.5	7450.2
12.5°	7318.2	7362.2	7341.1	7390.6	7389.7
15°	7244.0	7288.0	7266.0	7321.0	7324.6
17.5°	7156.9	7197.2	7180.7	7231.1	7211.0
20°	7056.1	7090.9	7082.7	7130.3	7115.7
22.5°	6932.3	6968.1	6959.8	7014.8	6992.8
25°	6797.6	6833.3	6823.3	6884.7	6864.5
27.5°	6651.8	6685.8	6684.8	6742.6	6711.4
30°	6483.2	6528.1	6530.9	6582.2	6545.5
32.5°	6316.4	6358.5	6370.4	6408.0	6376.9
35°	6129.4	6171.5	6185.3	6223.8	6189.9
37.5°	5927.7	5963.5	5988.2	6016.6	5990.1
40°	5714.2	5746.2	5764.6	5799.4	5764.6
42.5°	5475.8	5521.7	5547.3	5572.1	5515.2
45°	5229.3	5281.5	5292.5	5284.3	4611.5
47.5°	4968.0	5024.9	5031.3	4387.8	4264.1
50°	4680.2	4751.7	4750.8	4055.1	4022.1
52.5°	4380.5	4449.2	4446.5	3794.8	3772.8
55°	4057.8	4132.1	3628.9	3523.5	3525.3
57.5°	3728.8	3781.9	3255.8	3260.4	3199.9
60°	3371.3	3421.7	2940.5	2912.1	2807.6
62.5°	3012.9	3034.0	2635.3	2496.8	2297.9
65°	2635.3	2657.3	2307.1	1897.4	1643.5
67.5°	2247.5	2269.5	1914.8	1411.6	1392.3
70°	1857.1	1677.4	1452.8	1176.0	1185.2
72.5°	1472.1	1288.8	949.6	911.1	658.1
75°	1110.0	972.5	737.9	495.9	482.1
77.5°	772.7	670.0	395.1	338.2	316.2
80°	479.4	336.4	236.5	209.9	201.7
82.5°	242.9	193.4	128.3	128.3	128.3
85°	99.0	70.6	72.4	78.8	79.7
87.5°	21.1	28.4	34.8	35.7	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)