

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-CLI-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 (P23766)  
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-CLI-UNV-L735-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

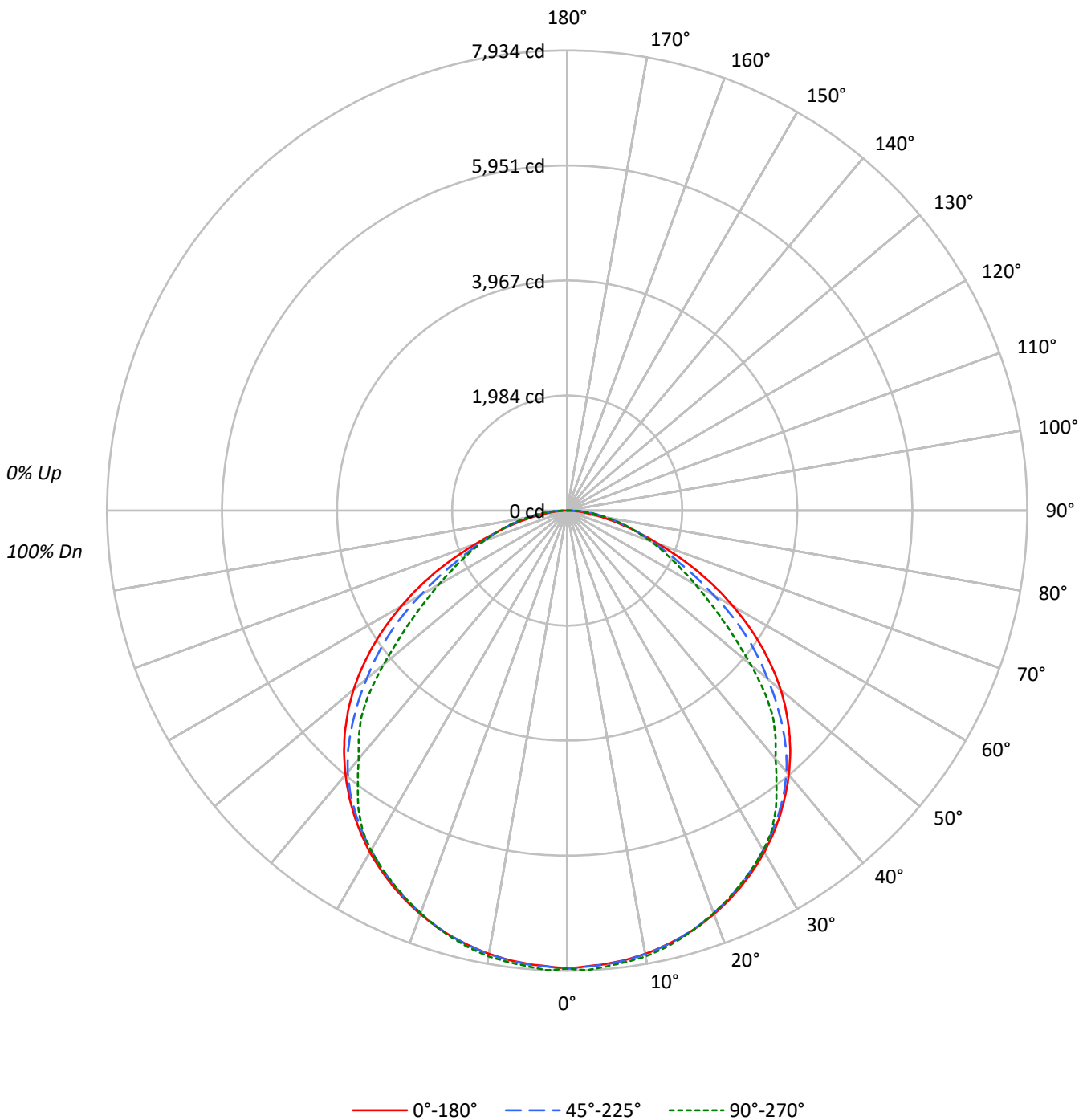
Lumens per Lamp: N/A  
Luminaire Lumens: 21218.0 lumens  
Efficiency: N/A  
Efficacy: 137.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	10626	10626	10626
5°	10597	10605	10652
10°	10603	10608	10664
15°	10605	10603	10628
20°	10602	10578	10580
25°	10586	10546	10534
30°	10568	10505	10511
35°	10519	10454	10306
40°	10444	10338	9816
45°	10312	9982	9545
50°	10064	9450	8645
55°	9605	8838	7644
60°	8914	7886	6893
65°	7923	6827	6339
70°	6576	6102	5975
75°	5318	5584	5653
80°	4224	5341	5318
85°	3308	5737	5474



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	749.0	3.5
10°-20°	2154.3	10.2
20°-30°	3284.9	15.5
30°-40°	3974.3	18.7
40°-50°	4025.6	19.0
50°-60°	3327.2	15.7
60°-70°	2197.6	10.4
70°-80°	1145.9	5.4
80°-90°	359.2	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°	6188.2	29.2
0°-40°	10162.4	47.9
0°-60°	17515.3	82.5
0°-90°	21218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21218.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7898	7898	7898	7898	7898	
5°	7846	7894	7852	7886	7887	746
15°	7613	7652	7612	7636	7630	2150
25°	7130	7159	7104	7122	7095	3288
35°	6404	6413	6364	6356	6274	4006
45°	5419	5405	5246	5083	5016	4173
55°	4095	4034	3768	3402	3258	3650
65°	2489	2417	2144	2005	1991	2458
75°	1023	1041	1074	1088	1087	1114
85°	214	276	372	369	355	260
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7897.5	7897.5	7897.5	7897.5	7897.5
2.5°	7864.3	7910.7	7871.9	7906.0	7933.5
5°	7846.3	7893.7	7852.0	7886.1	7887.0
7.5°	7811.2	7858.6	7815.9	7850.1	7849.1
10°	7760.9	7805.5	7764.7	7805.5	7805.5
12.5°	7692.7	7736.3	7696.5	7734.4	7728.7
15°	7613.0	7651.9	7612.1	7635.8	7630.1
17.5°	7519.2	7554.3	7509.7	7529.6	7518.2
20°	7404.5	7436.7	7387.4	7413.0	7389.3
22.5°	7275.5	7305.9	7255.6	7274.6	7248.0
25°	7130.5	7158.9	7103.9	7121.9	7095.4
27.5°	6974.0	6999.6	6938.0	6959.8	6939.0
30°	6802.4	6814.8	6761.7	6790.1	6765.5
32.5°	6610.9	6618.5	6572.1	6597.6	6555.9
35°	6404.2	6412.8	6364.4	6355.9	6274.4
37.5°	6183.3	6187.1	6141.6	6064.8	5930.2
40°	5946.3	5944.4	5885.6	5708.4	5588.9
42.5°	5693.2	5692.2	5588.9	5387.0	5318.7
45°	5419.2	5405.0	5245.7	5082.6	5016.3
47.5°	5125.3	5110.1	4887.3	4757.4	4606.7
50°	4807.7	4781.1	4514.7	4337.4	4129.8
52.5°	4465.4	4424.7	4153.5	3867.2	3670.9
55°	4094.7	4034.1	3767.6	3401.7	3258.5
57.5°	3708.9	3618.8	3360.0	3003.5	2886.9
60°	3312.6	3212.1	2930.5	2637.5	2561.7
62.5°	2904.9	2805.4	2518.1	2297.2	2255.5
65°	2488.7	2416.6	2144.5	2005.2	1991.0
67.5°	2062.1	2036.5	1828.8	1757.7	1752.0
70°	1671.5	1666.7	1551.0	1515.0	1518.8
72.5°	1335.8	1330.1	1313.1	1295.1	1296.0
75°	1023.0	1041.0	1074.2	1088.4	1087.4
77.5°	763.2	800.2	870.3	898.8	894.0
80°	545.1	600.1	689.3	715.8	686.4
82.5°	363.1	420.9	526.2	530.0	506.3
85°	214.3	275.9	371.6	368.8	354.6
87.5°	106.2	165.9	222.8	213.3	203.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)