

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-L750-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-L750-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

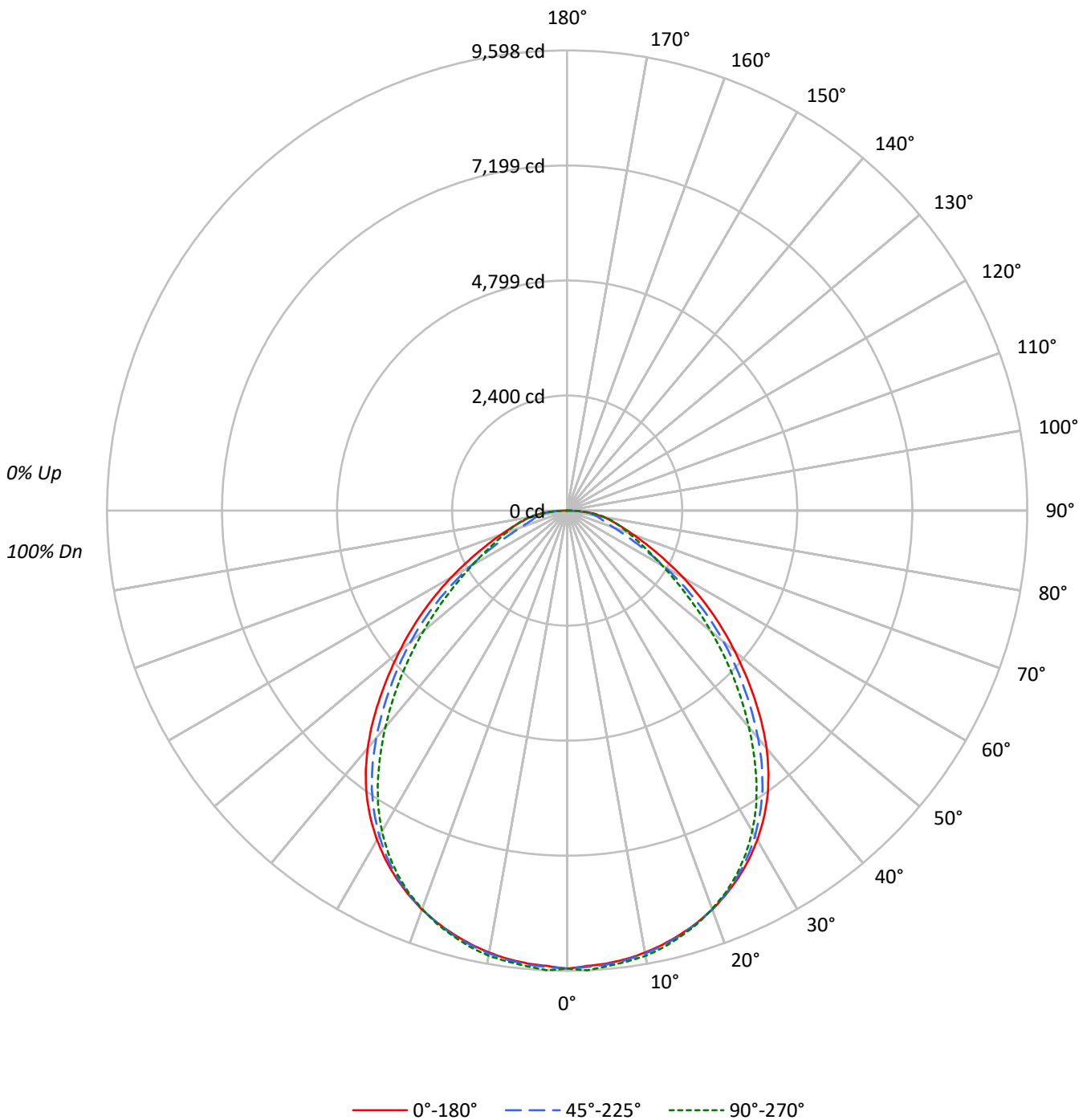
Lumens per Lamp: N/A  
Luminaire Lumens: 21942.0 lumens  
Efficiency: N/A  
Efficacy: 142.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

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

	0°	45°	90°
0°	12852	12852	12852
5°	12806	12835	12888
10°	12788	12817	12882
15°	12745	12771	12801
20°	12679	12669	12660
25°	12541	12498	12428
30°	12325	12176	11998
35°	11966	11665	11306
40°	11371	10883	10361
45°	10505	9919	9318
50°	9549	8932	8196
55°	8587	7732	7085
60°	7514	6319	6148
65°	6479	4969	5549
70°	5776	4056	5348
75°	5533	3959	5589
80°	5985	4682	6227
85°	6719	5638	6785



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	905.3	4.1
10°-20°	2590.8	11.8
20°-30°	3875.6	17.7
30°-40°	4421.7	20.2
40°-50°	4025.0	18.3
50°-60°	2955.5	13.5
60°-70°	1745.1	8.0
70°-80°	1000.1	4.6
80°-90°	422.9	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°	7371.7	33.6
0°-40°	11793.4	53.7
0°-60°	18774.0	85.6
0°-90°	21942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21942.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9552	9552	9552	9552	9552	
5°	9482	9541	9503	9541	9542	901
15°	9150	9200	9168	9200	9190	2582
25°	8448	8478	8418	8415	8371	3889
35°	7285	7250	7102	6980	6883	4539
45°	5521	5488	5213	4979	4897	4255
55°	3660	3491	3296	3057	3020	3273
65°	2035	1776	1561	1670	1743	2048
75°	1064	912	762	993	1075	1147
85°	435	402	365	431	440	455
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9551.7	9551.7	9551.7	9551.7	9551.7
2.5°	9507.6	9562.5	9528.0	9565.7	9598.0
5°	9481.7	9541.0	9503.2	9541.0	9542.0
7.5°	9434.3	9489.2	9452.6	9493.6	9489.2
10°	9360.0	9414.9	9381.5	9425.7	9428.9
12.5°	9265.2	9318.0	9283.5	9334.1	9325.5
15°	9149.9	9200.5	9168.2	9200.5	9189.8
17.5°	9014.2	9060.5	9018.5	9054.0	9035.7
20°	8854.8	8893.5	8848.3	8881.7	8841.8
22.5°	8664.1	8698.6	8651.2	8669.5	8628.5
25°	8447.6	8477.7	8418.5	8415.3	8371.1
27.5°	8206.3	8222.4	8147.0	8121.2	8070.5
30°	7932.7	7937.0	7836.8	7788.3	7722.6
32.5°	7625.7	7614.9	7486.7	7414.5	7333.7
35°	7285.2	7249.7	7102.1	6980.4	6883.4
37.5°	6900.7	6844.7	6668.0	6488.1	6395.5
40°	6474.1	6408.4	6196.2	5973.2	5898.9
42.5°	6009.8	5953.8	5703.9	5471.2	5398.0
45°	5520.8	5488.4	5212.7	4978.9	4897.0
47.5°	5031.7	5008.0	4738.7	4500.6	4401.5
50°	4562.0	4510.3	4266.9	4006.2	3915.7
52.5°	4106.4	4000.8	3786.4	3519.3	3452.5
55°	3660.4	3491.3	3296.3	3057.2	3020.5
57.5°	3218.7	3000.1	2810.5	2631.7	2630.6
60°	2792.2	2542.2	2348.3	2254.6	2284.8
62.5°	2392.5	2136.1	1926.1	1932.5	1987.5
65°	2034.9	1776.3	1560.9	1669.7	1742.9
67.5°	1727.9	1481.2	1262.5	1465.0	1535.0
70°	1468.3	1245.3	1030.9	1284.0	1359.5
72.5°	1249.6	1062.1	869.3	1133.2	1209.7
75°	1064.3	912.4	761.6	993.2	1075.1
77.5°	913.5	778.8	683.0	859.6	944.7
80°	772.4	653.9	604.3	730.4	803.6
82.5°	611.9	530.0	500.9	593.5	631.3
85°	435.2	401.8	365.2	430.9	439.5
87.5°	239.1	247.8	204.7	247.8	248.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)