

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-AWG-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 (P23764)
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-AWG-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

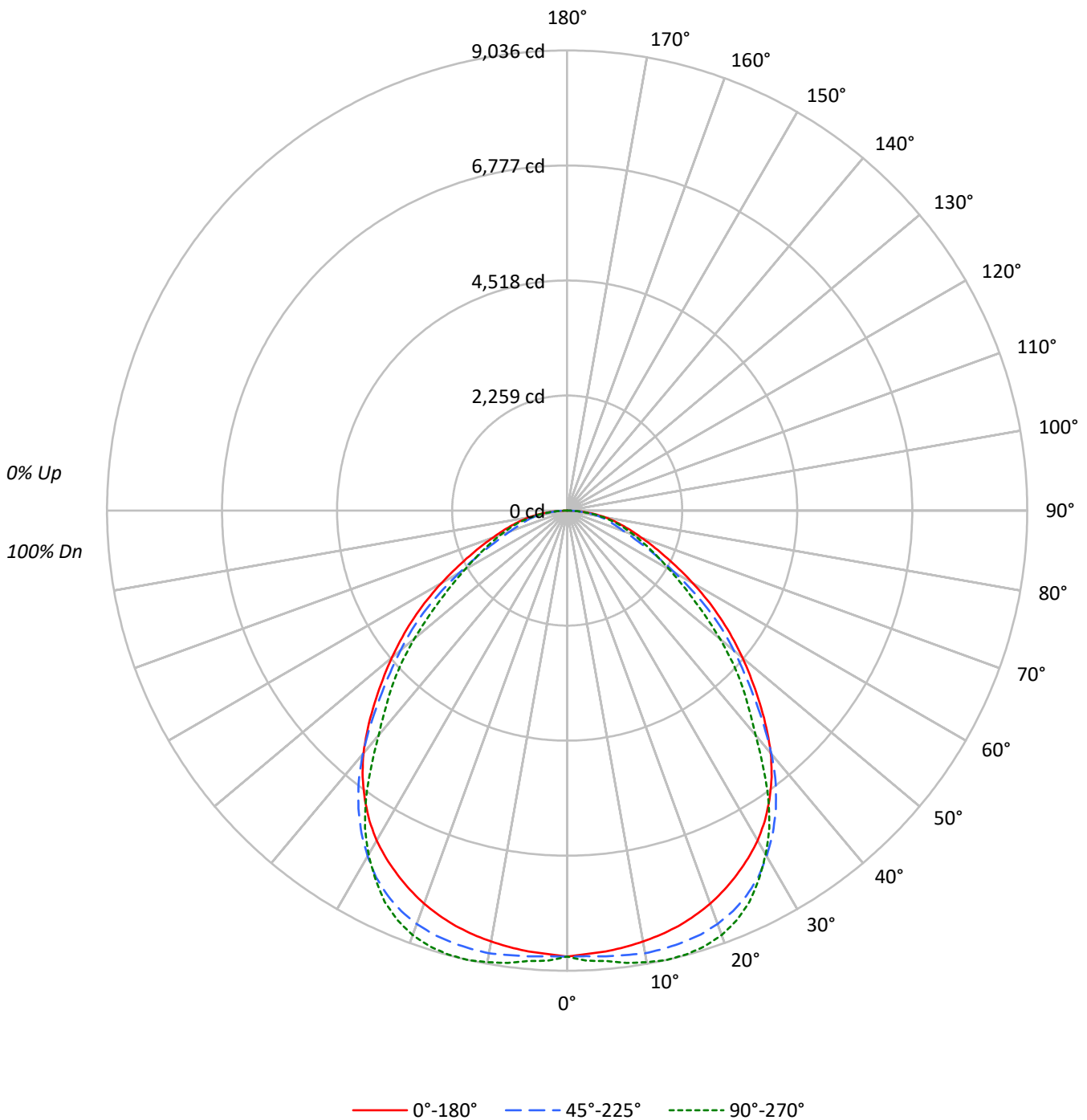
Lumens per Lamp: N/A
Luminaire Lumens: 21709.0 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	85	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63					63			
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42					42			
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38					38			
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11783	11783	11783
5°	11737	11869	11989
10°	11740	12059	12302
15°	11763	12226	12570
20°	11760	12366	12699
25°	11710	12383	12583
30°	11623	12176	12112
35°	11376	11736	11309
40°	10931	10963	10110
45°	10175	9884	9242
50°	9405	8938	8189
55°	8610	7921	7067
60°	7677	6574	6241
65°	6733	5410	5734
70°	6079	4661	5460
75°	5810	4568	5444
80°	5857	4837	5312
85°	5189	4431	4638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	841.2	3.9
10°-20°	2479.1	11.4
20°-30°	3802.5	17.5
30°-40°	4373.5	20.1
40°-50°	3988.9	18.4
50°-60°	2989.7	13.8
60°-70°	1839.0	8.5
70°-80°	1053.9	4.9
80°-90°	341.2	1.6
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°	7122.8	32.8
0°-40°	11496.3	53.0
0°-60°	18474.9	85.1
0°-90°	21709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21709.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8757	8757	8757	8757	8757	
5°	8690	8778	8787	8860	8877	826
15°	8445	8632	8777	8965	9024	2384
25°	7887	8114	8341	8469	8476	3634
35°	6926	7061	7145	7028	6885	4319
45°	5347	5463	5194	4926	4857	4127
55°	3670	3534	3376	3078	3012	3279
65°	2115	1892	1699	1752	1801	2127
75°	1118	1002	879	1006	1047	1195
85°	336	317	287	303	300	375
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8757.2	8757.2	8757.2	8757.2	8757.2
2.5°	8715.9	8778.4	8758.3	8809.7	8847.7
5°	8690.2	8778.4	8787.4	8860.0	8876.7
7.5°	8646.7	8761.7	8801.9	8930.3	8959.3
10°	8593.1	8731.6	8826.5	8964.9	9004.0
12.5°	8528.3	8689.1	8809.7	8980.5	9036.4
15°	8444.6	8632.2	8777.3	8964.9	9024.1
17.5°	8338.5	8556.3	8726.0	8910.2	8971.6
20°	8213.5	8443.5	8636.6	8825.3	8868.9
22.5°	8062.7	8293.9	8513.8	8683.5	8707.0
25°	7887.4	8114.1	8340.8	8469.2	8475.9
27.5°	7696.5	7907.5	8119.7	8188.9	8158.8
30°	7481.0	7669.7	7837.2	7851.7	7795.9
32.5°	7225.3	7395.0	7514.5	7483.2	7389.4
35°	6926.1	7061.2	7144.9	7027.7	6884.8
37.5°	6597.8	6699.4	6727.3	6472.7	6309.7
40°	6223.7	6310.8	6241.6	5887.7	5755.9
42.5°	5792.7	5893.2	5715.7	5366.2	5285.8
45°	5347.2	5463.4	5194.3	4926.3	4857.1
47.5°	4910.7	5016.7	4711.9	4496.4	4393.7
50°	4493.1	4538.8	4269.8	4026.3	3912.4
52.5°	4082.2	4036.4	3845.5	3542.9	3442.4
55°	3670.2	3533.9	3376.5	3078.4	3012.5
57.5°	3257.0	3067.2	2895.3	2666.4	2640.7
60°	2852.8	2619.5	2443.0	2306.8	2319.1
62.5°	2467.6	2229.8	2041.1	1997.5	2044.4
65°	2114.8	1891.5	1699.4	1751.9	1801.0
67.5°	1821.1	1606.7	1411.3	1545.3	1584.4
70°	1545.3	1372.3	1184.7	1357.7	1387.9
72.5°	1325.4	1178.0	1015.0	1183.6	1209.2
75°	1117.7	1001.6	878.7	1006.0	1047.3
77.5°	936.8	840.8	757.0	831.8	876.5
80°	755.9	674.4	624.2	657.7	685.6
82.5°	553.8	501.3	464.5	479.0	483.5
85°	336.1	317.1	287.0	302.6	300.4
87.5°	110.5	126.2	132.9	119.5	112.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)