

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-WG-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-WG-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

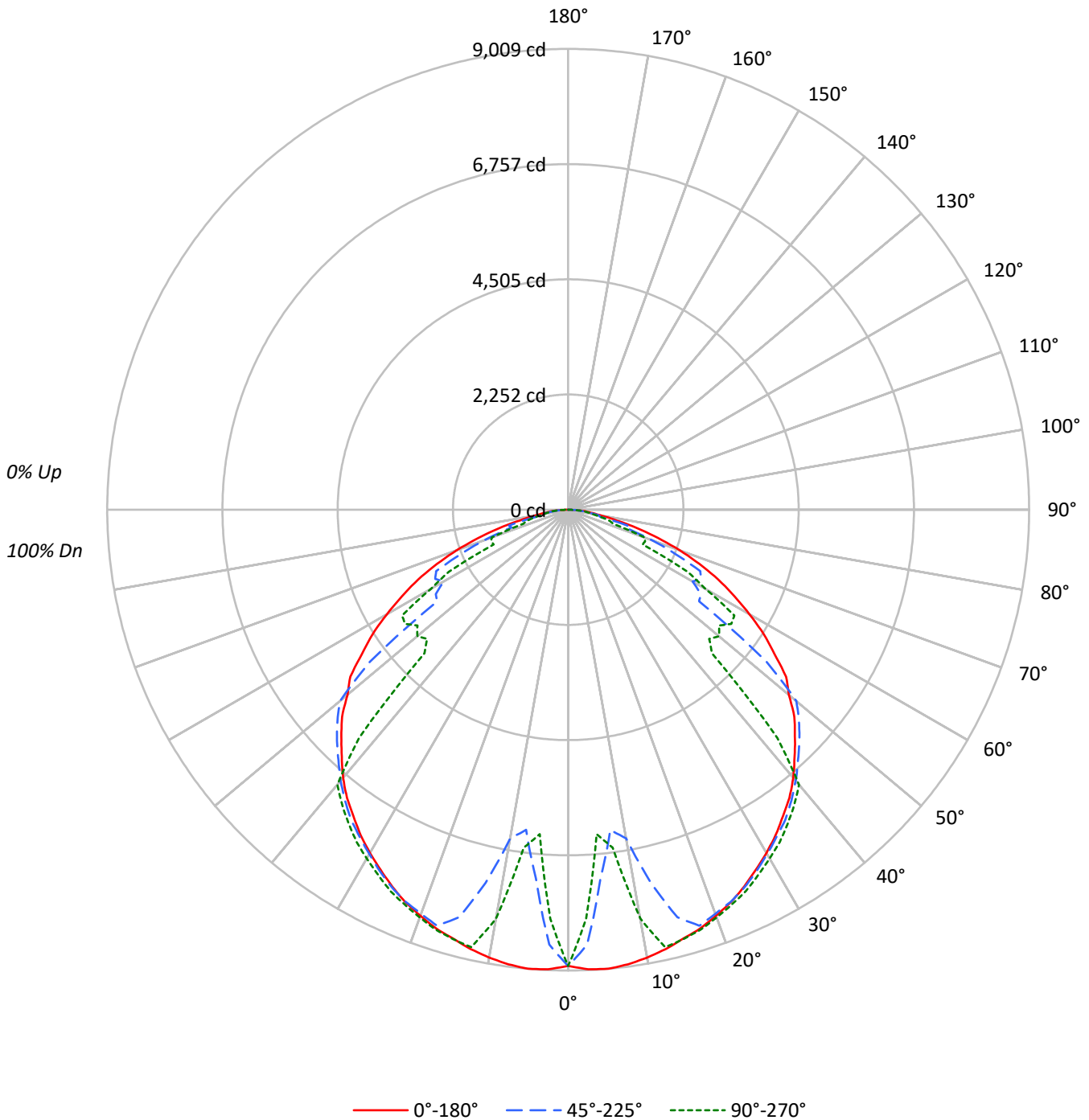
Lumens per Lamp: N/A
Luminaire Lumens: 23630.0 lumens
Efficiency: N/A
Efficacy: 153.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12001	12001	12001
5°	12168	9775	8597
10°	12147	8915	11088
15°	12093	11490	12104
20°	12093	12038	12145
25°	12072	12099	12210
30°	12037	12076	12232
35°	12018	12151	12293
40°	12019	12150	12324
45°	11925	12158	7556
50°	11790	12183	8053
55°	11541	7326	9127
60°	11010	7551	8358
65°	10316	9066	5114
70°	9109	6868	6268
75°	7258	6243	4347
80°	5000	4512	3735
85°	4792	4165	3952



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	713.3	3.0
10°-20°	2234.5	9.5
20°-30°	3676.3	15.6
30°-40°	4622.4	19.6
40°-50°	4533.4	19.2
50°-60°	3756.2	15.9
60°-70°	2649.3	11.2
70°-80°	1155.9	4.9
80°-90°	288.8	1.2
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°	6624.0	28.0
0°-40°	11246.4	47.6
0°-60°	19536.1	82.7
0°-90°	23630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8920	8920	8920	8920	8920	
5°	9009	8385	7238	6562	6365	855
15°	8682	6029	8249	8716	8689	2455
25°	8131	7440	8150	8204	8224	3748
35°	7316	7312	7398	7447	7484	4584
45°	6267	6286	6390	5659	3971	4838
55°	4920	5081	3123	3550	3891	4402
65°	3240	3431	2848	2191	1606	3186
75°	1396	1368	1201	785	836	1497
85°	310	276	270	258	256	322
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8919.6	8919.6	8919.6	8919.6	8919.6
2.5°	8993.1	8806.5	8510.0	8136.7	8004.5
5°	9009.1	8385.2	7237.6	6562.5	6365.2
7.5°	8963.3	7620.5	6309.7	6451.6	6660.6
10°	8890.8	6948.6	6525.2	7677.0	8115.4
12.5°	8798.0	6351.3	7475.4	8672.1	8759.6
15°	8681.7	6029.2	8248.7	8715.8	8689.2
17.5°	8583.6	6218.0	8526.0	8628.4	8609.2
20°	8446.0	6594.5	8407.6	8489.7	8482.3
22.5°	8307.4	7040.3	8295.6	8354.3	8354.3
25°	8131.4	7440.3	8149.5	8203.9	8224.2
27.5°	7938.3	7670.6	7967.1	8011.9	8048.2
30°	7747.4	7703.7	7773.0	7830.6	7873.3
32.5°	7545.8	7528.8	7583.2	7644.0	7698.4
35°	7316.5	7312.3	7397.6	7446.7	7484.0
37.5°	7101.1	7086.2	7165.1	7233.3	7262.1
40°	6843.0	6843.0	6917.6	6987.0	7016.8
42.5°	6548.6	6590.2	6647.8	6719.3	6051.6
45°	6267.0	6286.2	6389.7	5659.1	3970.8
47.5°	5996.1	6020.7	6118.8	3638.0	3737.2
50°	5632.5	5743.4	5820.2	3627.3	3847.0
52.5°	5366.9	5414.9	4885.9	3591.1	3714.8
55°	4920.0	5081.0	3122.9	3550.5	3890.8
57.5°	4538.2	4655.5	3070.6	3638.0	3849.2
60°	4091.3	4270.5	2806.1	3510.0	3105.8
62.5°	3662.5	3833.2	2929.8	2762.4	2630.1
65°	3240.2	3431.1	2847.7	2190.7	1606.2
67.5°	2777.3	2599.2	2271.8	1543.3	1624.4
70°	2315.5	1815.3	1745.9	1725.7	1593.4
72.5°	1840.9	1324.7	1159.3	1294.8	926.8
75°	1396.1	1368.4	1200.9	785.0	836.2
77.5°	968.4	987.6	643.1	765.8	635.7
80°	645.3	558.9	582.3	488.5	482.1
82.5°	446.9	456.5	382.9	371.2	376.5
85°	310.4	276.2	269.8	258.1	256.0
87.5°	103.5	120.5	112.0	101.3	107.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)