

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

Luminaire Equipment: Sample No. Condition Description

Summary

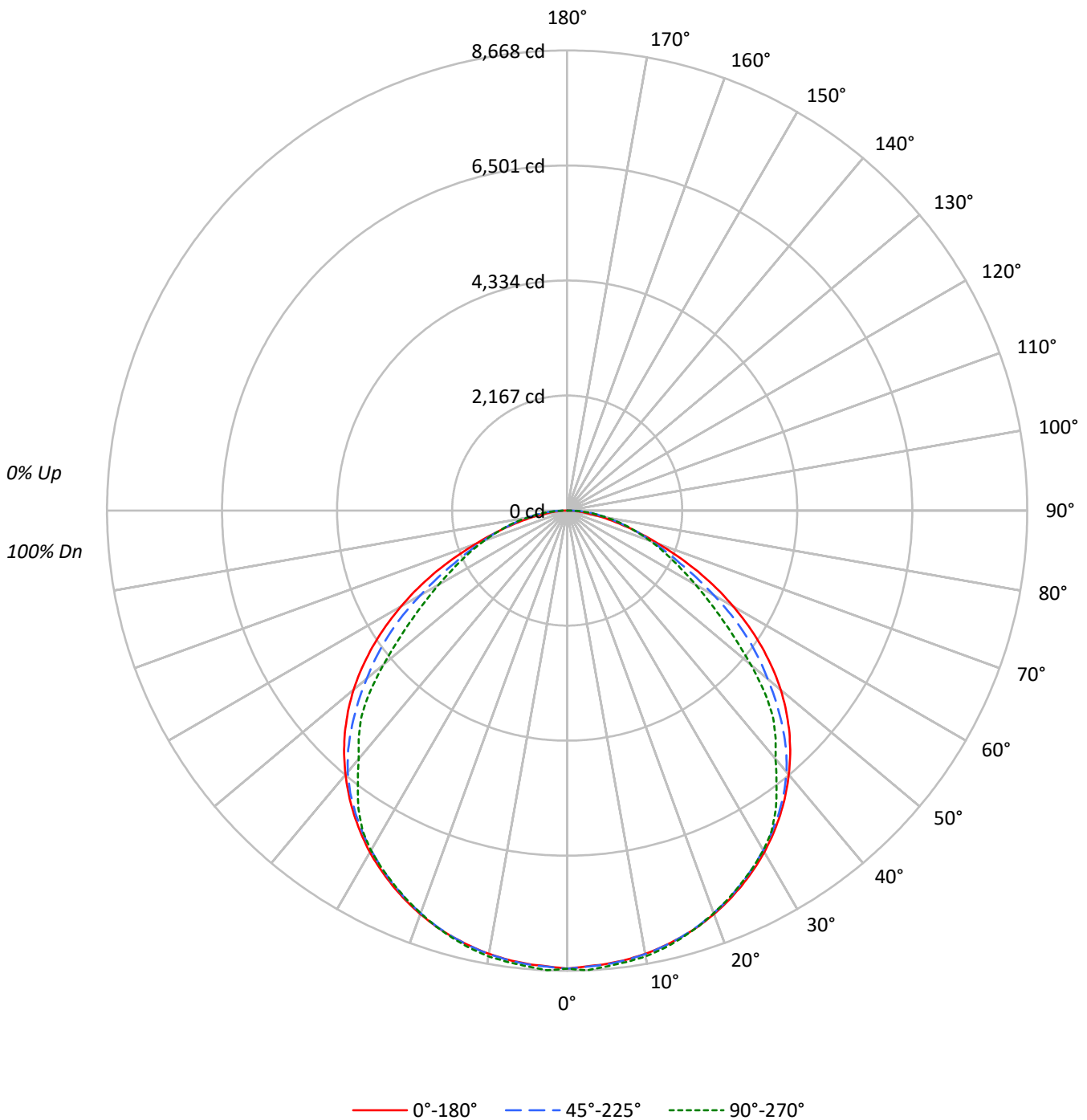
Lumens per Lamp: N/A
Luminaire Lumens: 23181.0 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	11609	11609	11609
5°	11578	11586	11638
10°	11584	11590	11651
15°	11586	11584	11612
20°	11583	11556	11559
25°	11565	11522	11508
30°	11546	11477	11484
35°	11492	11421	11259
40°	11411	11294	10725
45°	11266	10905	10428
50°	10995	10325	9444
55°	10494	9656	8351
60°	9739	8615	7531
65°	8656	7459	6925
70°	7184	6666	6528
75°	5810	6101	6176
80°	4615	5835	5810
85°	3614	6268	5981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	818.2	3.5
10°-20°	2353.6	10.2
20°-30°	3588.8	15.5
30°-40°	4342.0	18.7
40°-50°	4398.0	19.0
50°-60°	3635.1	15.7
60°-70°	2400.9	10.4
70°-80°	1251.9	5.4
80°-90°	392.5	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°	6760.7	29.2
0°-40°	11102.6	47.9
0°-60°	19135.7	82.5
0°-90°	23181.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23181.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8628	8628	8628	8628	8628	
5°	8572	8624	8578	8616	8617	815
15°	8317	8360	8316	8342	8336	2349
25°	7790	7821	7761	7781	7752	3592
35°	6997	7006	6953	6944	6855	4376
45°	5921	5905	5731	5553	5480	4559
55°	4474	4407	4116	3716	3560	3987
65°	2719	2640	2343	2191	2175	2685
75°	1118	1137	1174	1189	1188	1218
85°	234	301	406	403	387	284
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8628.1	8628.1	8628.1	8628.1	8628.1
2.5°	8591.8	8642.6	8600.1	8637.4	8667.5
5°	8572.2	8624.0	8578.4	8615.7	8616.7
7.5°	8533.8	8585.6	8539.0	8576.3	8575.3
10°	8478.9	8527.6	8483.1	8527.6	8527.6
12.5°	8404.4	8452.0	8408.5	8449.9	8443.7
15°	8317.4	8359.8	8316.3	8342.2	8336.0
17.5°	8214.8	8253.1	8204.5	8226.2	8213.8
20°	8089.5	8124.7	8070.8	8098.8	8072.9
22.5°	7948.6	7981.8	7926.9	7947.6	7918.6
25°	7790.1	7821.2	7761.1	7780.8	7751.8
27.5°	7619.2	7647.2	7579.9	7603.7	7580.9
30°	7431.8	7445.2	7387.2	7418.3	7391.4
32.5°	7222.5	7230.8	7180.1	7208.0	7162.5
35°	6996.7	7006.1	6953.2	6943.9	6854.8
37.5°	6755.4	6759.5	6709.8	6625.9	6478.8
40°	6496.5	6494.4	6430.2	6236.5	6106.0
42.5°	6219.9	6218.9	6106.0	5885.3	5810.8
45°	5920.6	5905.0	5731.0	5552.8	5480.3
47.5°	5599.5	5582.9	5339.5	5197.6	5032.9
50°	5252.5	5223.5	4932.4	4738.7	4511.9
52.5°	4878.6	4834.0	4537.8	4225.0	4010.6
55°	4473.6	4407.3	4116.2	3716.4	3560.0
57.5°	4052.0	3953.6	3670.8	3281.4	3154.0
60°	3619.0	3509.2	3201.6	2881.6	2798.7
62.5°	3173.6	3064.9	2751.0	2509.7	2464.1
65°	2718.9	2640.2	2342.9	2190.7	2175.2
67.5°	2252.8	2224.9	1998.0	1920.3	1914.1
70°	1826.1	1820.9	1694.5	1655.2	1659.3
72.5°	1459.4	1453.2	1434.6	1414.9	1415.9
75°	1117.6	1137.3	1173.5	1189.1	1188.0
77.5°	833.8	874.2	950.9	981.9	976.7
80°	595.6	655.7	753.0	782.0	749.9
82.5°	396.7	459.9	574.9	579.0	553.1
85°	234.1	301.4	406.0	402.9	387.4
87.5°	116.0	181.3	243.4	233.1	222.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)