

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-FLI-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 (P26703)
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-FLI-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

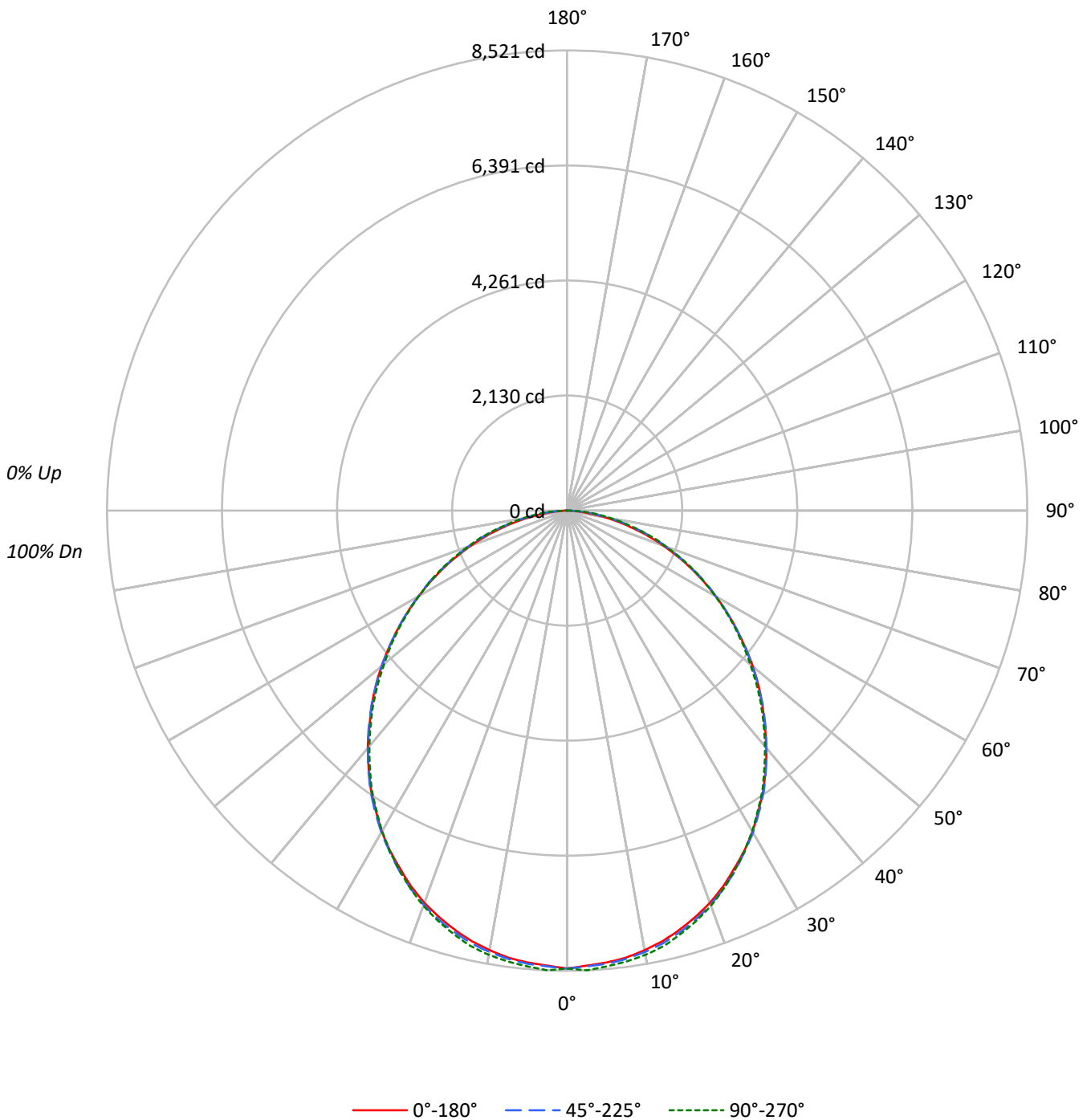
Lumens per Lamp: N/A
Luminaire Lumens: 22150.0 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	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	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11409	11409	11409
5°	11344	11376	11441
10°	11293	11338	11412
15°	11193	11254	11309
20°	11067	11120	11152
25°	10862	10924	10908
30°	10662	10690	10647
35°	10398	10424	10358
40°	10085	10085	10008
45°	9732	9759	9660
50°	9398	9382	9265
55°	8991	8993	8912
60°	8556	8566	8533
65°	8064	8145	8165
70°	7448	7652	7660
75°	6582	7008	7117
80°	5398	6138	6485
85°	3747	5153	5828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	802.0	3.6
10°-20°	2281.4	10.3
20°-30°	3390.3	15.3
30°-40°	3964.2	17.9
40°-50°	3952.4	17.8
50°-60°	3429.2	15.5
60°-70°	2532.9	11.4
70°-80°	1418.1	6.4
80°-90°	378.4	1.7
90°-100°	1.1	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°	6473.7	29.2
0°-40°	10437.9	47.1
0°-60°	17819.5	80.4
0°-90°	22148.9	100.0
90°-120°	1.1	0.0
90°-150°	1.1	0.0
90°-180°	1.0	0.0
0°-180°	22150.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8480	8480	8480	8480	8480	
5°	8399	8452	8423	8460	8471	798
15°	8036	8092	8080	8118	8119	2266
25°	7316	7375	7358	7374	7347	3373
35°	6330	6386	6346	6345	6306	3954
45°	5115	5169	5129	5108	5076	3948
55°	3833	3859	3834	3827	3799	3427
65°	2533	2558	2558	2571	2565	2505
75°	1266	1304	1348	1358	1369	1348
85°	243	293	334	364	378	295
90°	0	5	6	15	14	10
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-24SE-W-FLI-UNV-L750-ED2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8479.6	8479.6	8479.6	8479.6	8479.6
2.5°	8433.3	8483.4	8448.4	8481.8	8520.6
5°	8399.3	8452.1	8423.0	8460.2	8471.0
7.5°	8349.7	8400.9	8372.9	8410.1	8421.4
10°	8265.6	8321.1	8299.0	8341.1	8352.9
12.5°	8167.4	8219.7	8205.2	8254.2	8262.3
15°	8035.8	8091.9	8079.5	8118.4	8118.9
17.5°	7890.2	7943.1	7933.9	7964.1	7963.0
20°	7729.0	7785.6	7766.2	7799.1	7788.9
22.5°	7538.1	7598.5	7574.3	7601.8	7575.9
25°	7316.5	7375.3	7358.0	7374.2	7347.2
27.5°	7101.9	7155.8	7120.2	7139.6	7111.0
30°	6862.4	6908.3	6880.8	6887.3	6852.7
32.5°	6593.4	6647.8	6614.4	6613.3	6576.6
35°	6330.2	6385.8	6346.4	6345.3	6305.9
37.5°	6039.0	6090.8	6044.4	6047.1	6001.3
40°	5741.9	5786.7	5741.9	5739.7	5697.7
42.5°	5419.4	5478.7	5437.8	5442.6	5386.5
45°	5114.7	5169.2	5128.8	5107.7	5076.5
47.5°	4811.2	4834.9	4801.4	4796.1	4751.8
50°	4489.8	4507.6	4482.2	4475.7	4426.1
52.5°	4157.6	4188.3	4156.0	4147.3	4114.4
55°	3833.0	3859.4	3833.5	3827.0	3799.0
57.5°	3506.2	3540.7	3514.3	3507.8	3485.1
60°	3179.4	3189.6	3183.2	3192.9	3170.8
62.5°	2854.8	2878.5	2886.0	2883.3	2866.1
65°	2532.8	2557.6	2558.2	2571.1	2564.7
67.5°	2203.4	2235.7	2244.9	2258.4	2264.3
70°	1893.3	1918.1	1945.1	1953.1	1947.2
72.5°	1581.1	1621.0	1651.2	1658.2	1683.5
75°	1266.1	1303.9	1348.1	1357.8	1369.1
77.5°	973.9	1024.0	1063.9	1076.9	1090.9
80°	696.7	752.2	792.2	809.9	836.9
82.5°	457.3	513.9	554.3	572.1	605.0
85°	242.7	293.3	333.8	363.5	377.5
87.5°	71.7	114.9	138.0	146.7	159.1
90°	0.0	5.4	6.5	14.6	13.5
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)