

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-LD5-12HE-W-FLI-UNV-L740-ED1-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-LD5-12HE-W-FLI-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

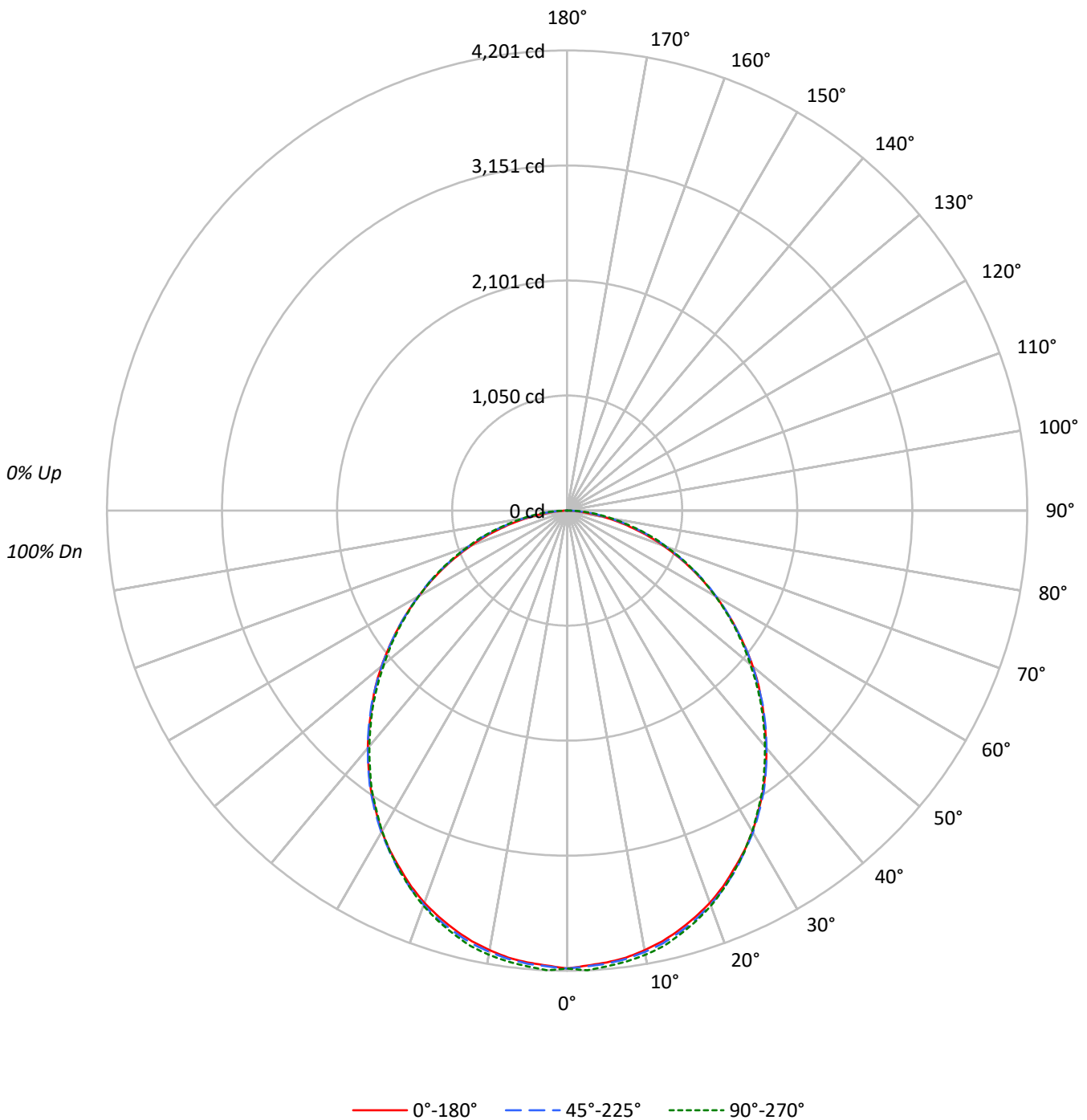
Lumens per Lamp: N/A
Luminaire Lumens: 10920.0 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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°	5625	5625	5625
5°	5593	5609	5640
10°	5567	5590	5626
15°	5518	5548	5575
20°	5456	5482	5498
25°	5355	5385	5377
30°	5256	5270	5249
35°	5126	5139	5106
40°	4972	4972	4934
45°	4798	4811	4762
50°	4633	4625	4568
55°	4433	4433	4393
60°	4218	4223	4207
65°	3975	4015	4025
70°	3672	3772	3777
75°	3245	3455	3509
80°	2662	3026	3197
85°	1846	2541	2873



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.4	3.6
10°-20°	1124.7	10.3
20°-30°	1671.4	15.3
30°-40°	1954.3	17.9
40°-50°	1948.5	17.8
50°-60°	1690.6	15.5
60°-70°	1248.7	11.4
70°-80°	699.1	6.4
80°-90°	186.6	1.7
90°-100°	0.6	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°	3191.5	29.2
0°-40°	5145.9	47.1
0°-60°	8785.0	80.4
0°-90°	10919.4	100.0
90°-120°	0.6	0.0
90°-150°	0.6	0.0
90°-180°	1.0	0.0
0°-180°	10920.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4180	4180	4180	4180	4180	
5°	4141	4167	4153	4171	4176	393
15°	3962	3989	3983	4002	4003	1117
25°	3607	3636	3628	3636	3622	1663
35°	3121	3148	3129	3128	3109	1949
45°	2522	2548	2528	2518	2503	1947
55°	1890	1903	1890	1887	1873	1690
65°	1249	1261	1261	1268	1264	1235
75°	624	643	665	669	675	665
85°	120	145	165	179	186	145
90°	0	3	3	7	7	5
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4180.5	4180.5	4180.5	4180.5	4180.5
2.5°	4157.6	4182.3	4165.1	4181.5	4200.7
5°	4140.9	4166.9	4152.6	4170.9	4176.2
7.5°	4116.4	4141.7	4127.8	4146.2	4151.8
10°	4074.9	4102.3	4091.4	4112.2	4118.0
12.5°	4026.6	4052.3	4045.2	4069.4	4073.3
15°	3961.7	3989.3	3983.2	4002.4	4002.6
17.5°	3889.9	3916.0	3911.4	3926.3	3925.8
20°	3810.4	3838.3	3828.8	3845.0	3839.9
22.5°	3716.3	3746.1	3734.1	3747.7	3734.9
25°	3607.0	3636.0	3627.5	3635.5	3622.2
27.5°	3501.2	3527.8	3510.3	3519.8	3505.8
30°	3383.2	3405.8	3392.2	3395.4	3378.4
32.5°	3250.5	3277.4	3260.9	3260.4	3242.3
35°	3120.8	3148.2	3128.8	3128.3	3108.8
37.5°	2977.2	3002.8	2979.9	2981.2	2958.6
40°	2830.8	2852.8	2830.8	2829.7	2809.0
42.5°	2671.8	2701.0	2680.8	2683.2	2655.6
45°	2521.6	2548.4	2528.5	2518.1	2502.7
47.5°	2371.9	2383.6	2367.1	2364.5	2342.7
50°	2213.5	2222.2	2209.7	2206.6	2182.1
52.5°	2049.7	2064.9	2048.9	2044.6	2028.4
55°	1889.7	1902.7	1889.9	1886.7	1872.9
57.5°	1728.6	1745.6	1732.5	1729.4	1718.2
60°	1567.4	1572.5	1569.3	1574.1	1563.2
62.5°	1407.4	1419.1	1422.8	1421.5	1413.0
65°	1248.7	1260.9	1261.2	1267.6	1264.4
67.5°	1086.3	1102.2	1106.7	1113.4	1116.3
70°	933.4	945.6	958.9	962.9	960.0
72.5°	779.5	799.1	814.0	817.5	830.0
75°	624.2	642.8	664.6	669.4	675.0
77.5°	480.1	504.8	524.5	530.9	537.8
80°	343.5	370.9	390.5	399.3	412.6
82.5°	225.4	253.4	273.3	282.1	298.3
85°	119.6	144.6	164.6	179.2	186.1
87.5°	35.4	56.6	68.1	72.3	78.4
90°	0.0	2.7	3.2	7.2	6.6
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)