

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-LD5-12SE-W-FLI-UNV-L750-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-LD5-12SE-W-FLI-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

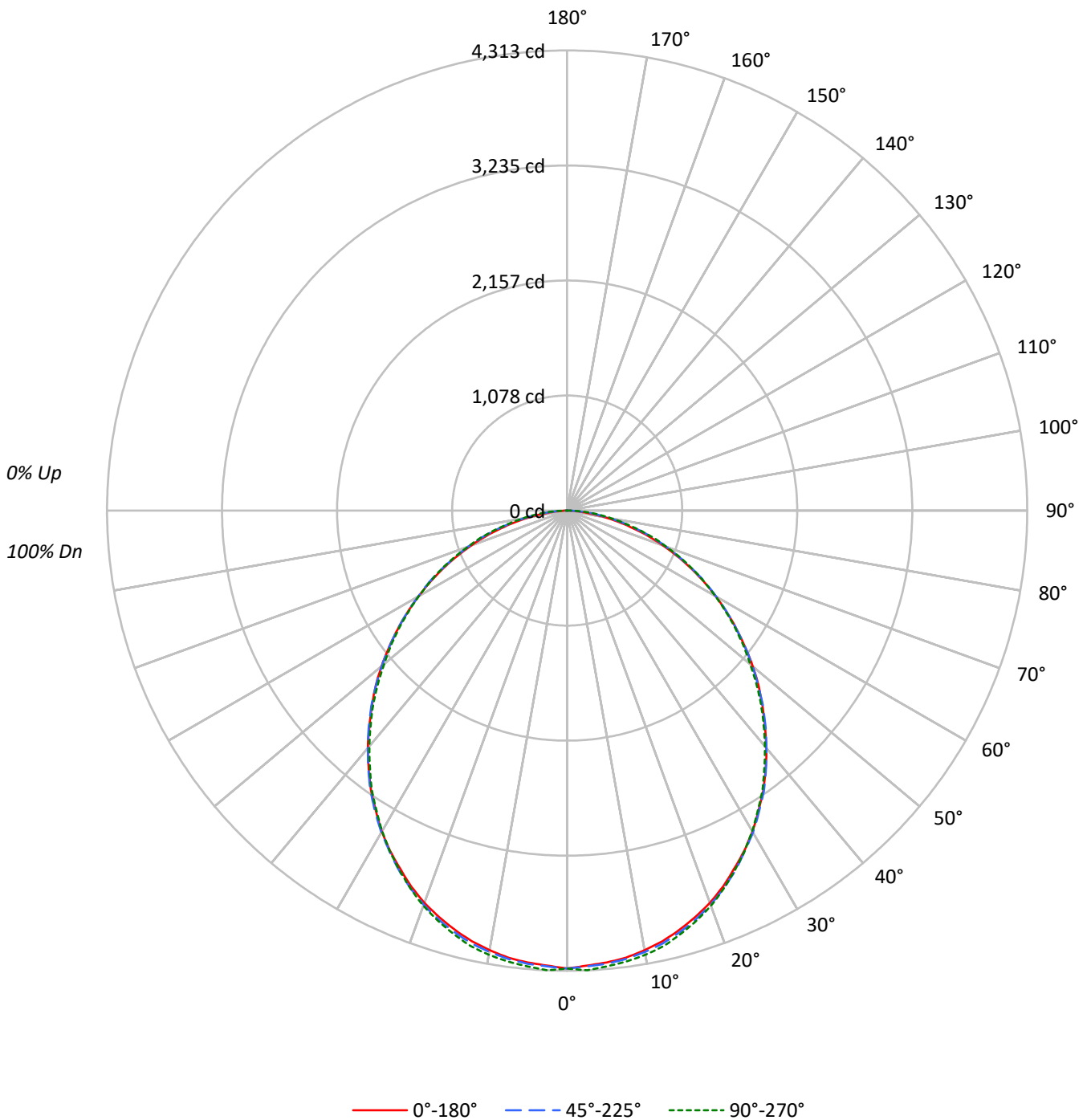
Lumens per Lamp: N/A
Luminaire Lumens: 11211.0 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
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°	5775	5775	5775
5°	5742	5758	5791
10°	5716	5739	5776
15°	5666	5696	5724
20°	5601	5628	5645
25°	5498	5529	5521
30°	5396	5411	5389
35°	5263	5276	5242
40°	5104	5104	5065
45°	4926	4940	4889
50°	4757	4749	4689
55°	4551	4552	4510
60°	4330	4335	4319
65°	4082	4122	4133
70°	3770	3873	3877
75°	3331	3547	3603
80°	2732	3106	3282
85°	1896	2607	2950



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.9	3.6
10°-20°	1154.7	10.3
20°-30°	1716.0	15.3
30°-40°	2006.4	17.9
40°-50°	2000.5	17.8
50°-60°	1735.7	15.5
60°-70°	1282.0	11.4
70°-80°	717.8	6.4
80°-90°	191.5	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°	3276.6	29.2
0°-40°	5283.0	47.1
0°-60°	9019.1	80.4
0°-90°	11210.4	100.0
90°-120°	0.6	0.0
90°-150°	0.6	0.0
90°-180°	1.0	0.0
0°-180°	11211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4292	4292	4292	4292	4292	
5°	4251	4278	4263	4282	4288	404
15°	4067	4096	4089	4109	4109	1147
25°	3703	3733	3724	3732	3719	1707
35°	3204	3232	3212	3212	3192	2001
45°	2589	2616	2596	2585	2569	1998
55°	1940	1953	1940	1937	1923	1735
65°	1282	1294	1295	1301	1298	1268
75°	641	660	682	687	693	682
85°	123	148	169	184	191	149
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



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12SE-W-FLI-UNV-L750-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4291.9	4291.9	4291.9	4291.9	4291.9
2.5°	4268.4	4293.8	4276.1	4293.0	4312.6
5°	4251.2	4278.0	4263.2	4282.1	4287.5
7.5°	4226.1	4252.0	4237.8	4256.7	4262.4
10°	4183.5	4211.6	4200.5	4221.7	4227.7
12.5°	4133.9	4160.3	4153.0	4177.8	4181.9
15°	4067.3	4095.6	4089.4	4109.0	4109.3
17.5°	3993.6	4020.3	4015.7	4031.0	4030.4
20°	3912.0	3940.6	3930.8	3947.4	3942.3
22.5°	3815.3	3845.9	3833.6	3847.6	3834.5
25°	3703.2	3732.9	3724.2	3732.4	3718.7
27.5°	3594.5	3621.8	3603.8	3613.6	3599.2
30°	3473.4	3496.6	3482.6	3485.9	3468.4
32.5°	3337.2	3364.7	3347.8	3347.3	3328.7
35°	3204.0	3232.1	3212.2	3211.6	3191.7
37.5°	3056.6	3082.8	3059.3	3060.7	3037.5
40°	2906.2	2928.9	2906.2	2905.1	2883.8
42.5°	2743.0	2773.0	2752.3	2754.7	2726.3
45°	2588.8	2616.3	2595.9	2585.2	2569.4
47.5°	2435.1	2447.1	2430.2	2427.5	2405.1
50°	2272.4	2281.5	2268.6	2265.4	2240.2
52.5°	2104.3	2119.9	2103.5	2099.1	2082.5
55°	1940.0	1953.4	1940.3	1937.0	1922.8
57.5°	1774.6	1792.1	1778.7	1775.4	1764.0
60°	1609.2	1614.4	1611.1	1616.0	1604.9
62.5°	1444.9	1456.9	1460.7	1459.4	1450.6
65°	1282.0	1294.5	1294.8	1301.3	1298.1
67.5°	1115.2	1131.6	1136.2	1143.0	1146.0
70°	958.3	970.8	984.5	988.6	985.6
72.5°	800.2	820.4	835.7	839.3	852.1
75°	640.8	660.0	682.3	687.2	693.0
77.5°	492.9	518.3	538.5	545.0	552.1
80°	352.6	380.7	400.9	409.9	423.6
82.5°	231.4	260.1	280.6	289.6	306.2
85°	122.8	148.5	168.9	184.0	191.1
87.5°	36.3	58.1	69.9	74.2	80.5
90°	0.0	2.7	3.3	7.4	6.8
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)