

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-LD5-18HE-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-LD5-18HE-W-FLI-UNV-L750-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

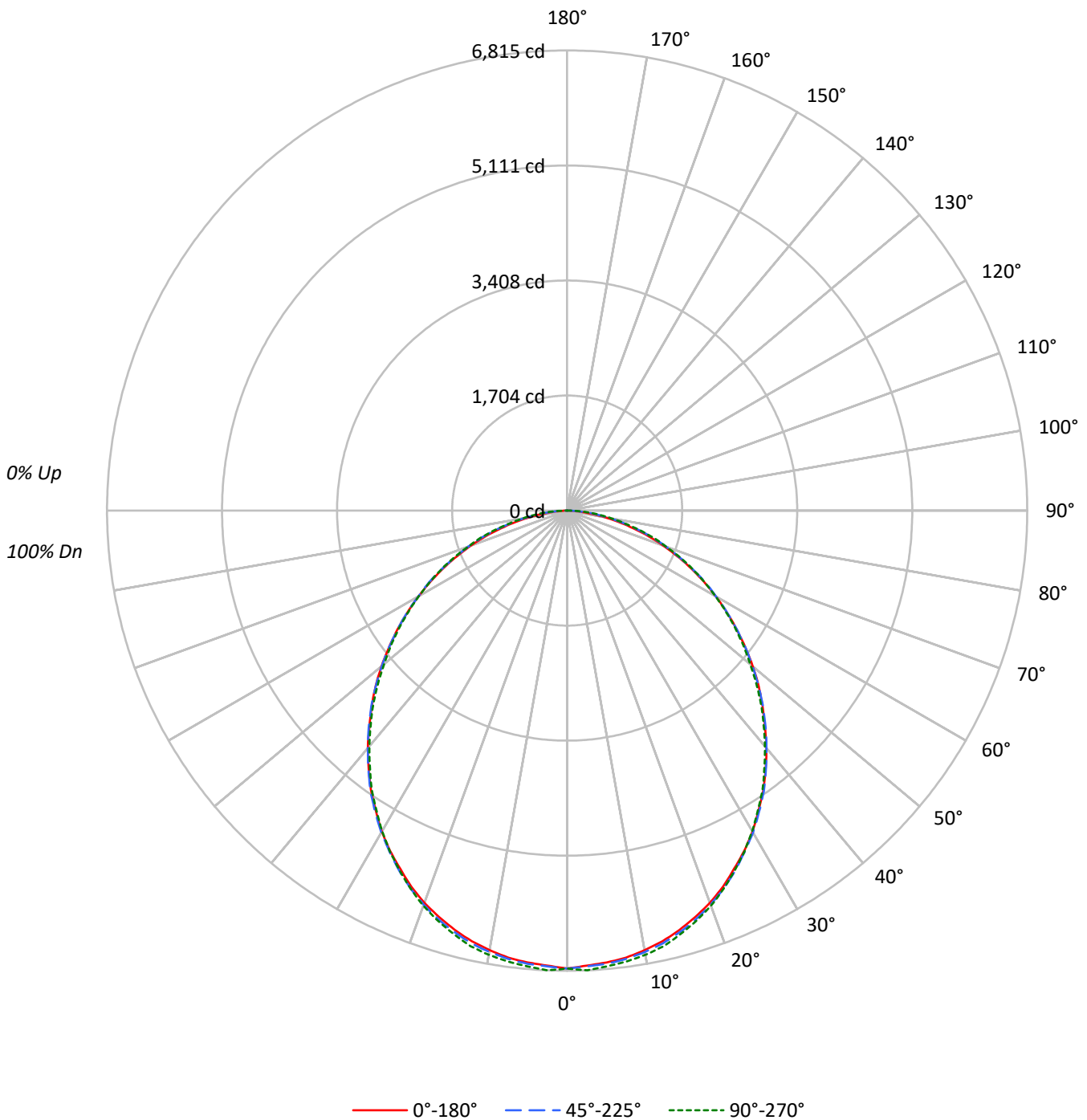
Lumens per Lamp: N/A  
Luminaire Lumens: 17716.0 lumens  
Efficiency: N/A  
Efficacy: 158.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 111.9  
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



TEST NUMBER: P#  
CATALOG NUMBER: HBLED-LD5-18HE-W-FLI-UNV-L750-ED2-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-W-FLI-UNV-L750-ED2-U

**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°	9125	9125	9125
5°	9073	9099	9151
10°	9032	9069	9128
15°	8953	9002	9045
20°	8851	8894	8920
25°	8688	8737	8724
30°	8527	8550	8515
35°	8316	8338	8284
40°	8066	8066	8004
45°	7784	7806	7726
50°	7517	7504	7410
55°	7191	7192	7128
60°	6843	6851	6824
65°	6450	6514	6531
70°	5957	6120	6127
75°	5265	5605	5693
80°	4317	4909	5187
85°	2996	4122	4661



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-W-FLI-UNV-L750-ED2-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	641.4	3.6
10°-20°	1824.7	10.3
20°-30°	2711.6	15.3
30°-40°	3170.6	17.9
40°-50°	3161.2	17.8
50°-60°	2742.7	15.5
60°-70°	2025.9	11.4
70°-80°	1134.2	6.4
80°-90°	302.6	1.7
90°-100°	0.9	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°	5177.8	29.2
0°-40°	8348.4	47.1
0°-60°	14252.4	80.4
0°-90°	17715.1	100.0
90°-120°	0.9	0.0
90°-150°	0.9	0.0
90°-180°	1.0	0.0
0°-180°	17716.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6782	6782	6782	6782	6782	
5°	6718	6760	6737	6767	6775	638
15°	6427	6472	6462	6493	6494	1813
25°	5852	5899	5885	5898	5876	2698
35°	5063	5107	5076	5075	5044	3163
45°	4091	4134	4102	4085	4060	3158
55°	3066	3087	3066	3061	3038	2741
65°	2026	2046	2046	2056	2051	2004
75°	1013	1043	1078	1086	1095	1079
85°	194	235	267	291	302	236
90°	0	4	5	12	11	8
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-LD5-18HE-W-FLI-UNV-L750-ED2-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6782.2	6782.2	6782.2	6782.2	6782.2
2.5°	6745.1	6785.2	6757.2	6783.9	6815.0
5°	6717.9	6760.2	6736.9	6766.7	6775.3
7.5°	6678.2	6719.2	6696.8	6726.5	6735.6
10°	6611.0	6655.4	6637.7	6671.3	6680.8
12.5°	6532.5	6574.3	6562.7	6601.9	6608.4
15°	6427.2	6472.1	6462.2	6493.2	6493.6
17.5°	6310.8	6353.0	6345.7	6369.9	6369.0
20°	6181.8	6227.1	6211.6	6237.9	6229.7
22.5°	6029.1	6077.4	6058.0	6080.0	6059.3
25°	5851.9	5898.9	5885.1	5898.0	5876.5
27.5°	5680.2	5723.3	5694.9	5710.4	5687.5
30°	5488.7	5525.4	5503.4	5508.6	5481.0
32.5°	5273.5	5317.1	5290.3	5289.5	5260.1
35°	5063.0	5107.4	5076.0	5075.1	5043.6
37.5°	4830.1	4871.5	4834.4	4836.6	4799.9
40°	4592.5	4628.3	4592.5	4590.8	4557.1
42.5°	4334.6	4382.0	4349.2	4353.1	4308.3
45°	4090.9	4134.4	4102.1	4085.3	4060.3
47.5°	3848.1	3867.0	3840.3	3836.0	3800.6
50°	3591.0	3605.2	3585.0	3579.8	3540.1
52.5°	3325.3	3349.9	3324.0	3317.1	3290.8
55°	3065.7	3086.8	3066.1	3060.9	3038.5
57.5°	2804.3	2831.9	2810.8	2805.6	2787.5
60°	2542.9	2551.1	2546.0	2553.7	2536.0
62.5°	2283.3	2302.3	2308.3	2306.2	2292.4
65°	2025.8	2045.7	2046.1	2056.4	2051.3
67.5°	1762.3	1788.2	1795.5	1806.3	1811.0
70°	1514.3	1534.1	1555.7	1562.2	1557.4
72.5°	1264.6	1296.5	1320.6	1326.2	1346.5
75°	1012.7	1042.9	1078.2	1086.0	1095.1
77.5°	778.9	819.0	851.0	861.3	872.5
80°	557.2	601.7	633.6	647.8	669.4
82.5°	365.7	411.0	443.4	457.6	483.9
85°	194.1	234.6	267.0	290.7	301.9
87.5°	57.4	91.9	110.4	117.3	127.2
90°	0.0	4.3	5.2	11.6	10.8
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



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-W-FLI-UNV-L750-ED2-U

**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)