

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

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

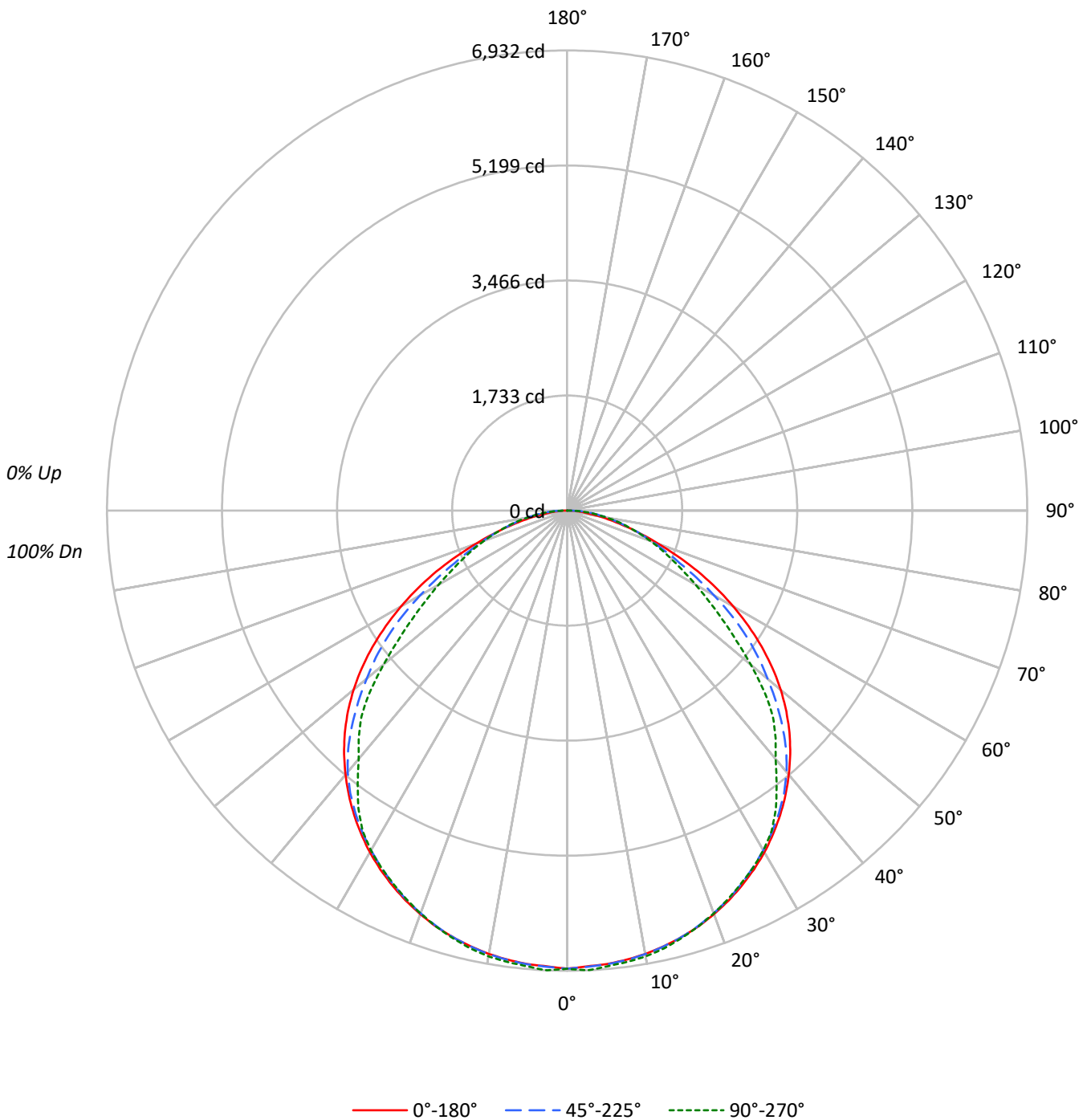
Lumens per Lamp: N/A  
Luminaire Lumens: 18541.0 lumens  
Efficiency: N/A  
Efficacy: 165.7 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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



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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°	9285	9285	9285
5°	9260	9267	9309
10°	9266	9270	9319
15°	9267	9266	9287
20°	9264	9243	9245
25°	9250	9216	9205
30°	9235	9180	9185
35°	9192	9135	9006
40°	9126	9033	8578
45°	9011	8722	8341
50°	8794	8258	7554
55°	8393	7723	6679
60°	7789	6891	6024
65°	6924	5966	5539
70°	5746	5332	5221
75°	4647	4879	4940
80°	3691	4667	4647
85°	2890	5014	4783



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	654.5	3.5
10°-20°	1882.5	10.2
20°-30°	2870.5	15.5
30°-40°	3472.9	18.7
40°-50°	3517.7	19.0
50°-60°	2907.5	15.7
60°-70°	1920.3	10.4
70°-80°	1001.3	5.4
80°-90°	313.9	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°	5407.4	29.2
0°-40°	8880.3	47.9
0°-60°	15305.4	82.5
0°-90°	18541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18541.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6901	6901	6901	6901	6901	
5°	6856	6898	6861	6891	6892	652
15°	6652	6686	6652	6672	6667	1879
25°	6231	6256	6208	6223	6200	2873
35°	5596	5604	5561	5554	5483	3500
45°	4736	4723	4584	4441	4383	3646
55°	3578	3525	3292	2972	2847	3189
65°	2175	2112	1874	1752	1740	2148
75°	894	910	939	951	950	974
85°	187	241	325	322	310	227
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6901.1	6901.1	6901.1	6901.1	6901.1
2.5°	6872.1	6912.7	6878.7	6908.5	6932.5
5°	6856.3	6897.8	6861.3	6891.1	6892.0
7.5°	6825.7	6867.1	6829.8	6859.6	6858.8
10°	6781.8	6820.7	6785.1	6820.7	6820.7
12.5°	6722.1	6760.2	6725.4	6758.6	6753.6
15°	6652.5	6686.5	6651.7	6672.4	6667.4
17.5°	6570.5	6601.2	6562.2	6579.6	6569.7
20°	6470.3	6498.4	6455.4	6477.7	6457.0
22.5°	6357.6	6384.1	6340.2	6356.8	6333.6
25°	6230.8	6255.7	6207.6	6223.4	6200.2
27.5°	6094.1	6116.5	6062.7	6081.7	6063.5
30°	5944.2	5955.0	5908.6	5933.4	5911.9
32.5°	5776.8	5783.5	5742.9	5765.2	5728.8
35°	5596.2	5603.7	5561.4	5554.0	5482.7
37.5°	5403.2	5406.5	5366.8	5299.7	5182.0
40°	5196.1	5194.4	5143.1	4988.2	4883.8
42.5°	4974.9	4974.1	4883.8	4707.3	4647.7
45°	4735.5	4723.0	4583.9	4441.4	4383.4
47.5°	4478.7	4465.4	4270.7	4157.2	4025.5
50°	4201.1	4177.9	3945.1	3790.2	3608.8
52.5°	3902.0	3866.4	3629.5	3379.3	3207.8
55°	3578.1	3525.1	3292.3	2972.5	2847.4
57.5°	3240.9	3162.2	2936.1	2624.6	2522.7
60°	2894.6	2806.8	2560.8	2304.8	2238.5
62.5°	2538.4	2451.4	2200.4	2007.4	1970.9
65°	2174.7	2111.7	1874.0	1752.2	1739.8
67.5°	1801.9	1779.5	1598.1	1536.0	1531.0
70°	1460.6	1456.4	1355.4	1323.9	1327.2
72.5°	1167.3	1162.3	1147.4	1131.7	1132.5
75°	893.9	909.6	938.6	951.1	950.2
77.5°	666.9	699.2	760.5	785.4	781.2
80°	476.4	524.4	602.3	625.5	599.8
82.5°	317.3	367.8	459.8	463.1	442.4
85°	187.2	241.1	324.8	322.3	309.8
87.5°	92.8	145.0	194.7	186.4	178.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)