

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-WG-UNV-L740-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 (P33336)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-18HE-W-WG-UNV-L740-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

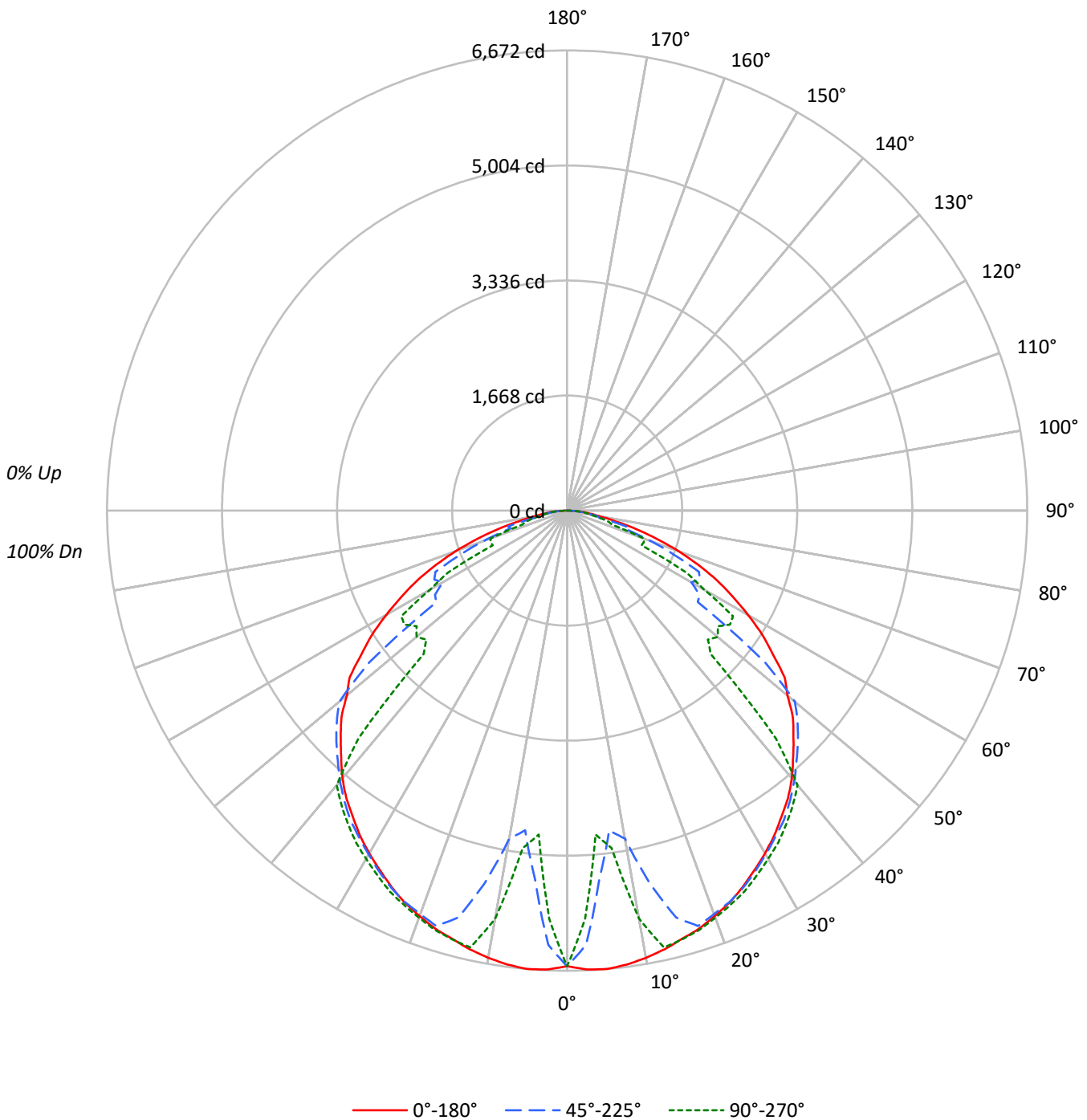
Lumens per Lamp: N/A  
Luminaire Lumens: 17500.0 lumens  
Efficiency: N/A  
Efficacy: 156.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	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	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8888	8888	8888
5°	9011	7240	6367
10°	8996	6602	8211
15°	8956	8509	8964
20°	8956	8915	8995
25°	8940	8960	9042
30°	8914	8944	9059
35°	8900	8999	9104
40°	8901	8998	9127
45°	8832	9004	5596
50°	8731	9022	5964
55°	8547	5425	6759
60°	8153	5592	6190
65°	7640	6714	3787
70°	6746	5087	4642
75°	5375	4624	3219
80°	3703	3342	2766
85°	3549	3084	2927



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.2	3.0
10°-20°	1654.8	9.5
20°-30°	2722.6	15.6
30°-40°	3423.3	19.6
40°-50°	3357.4	19.2
50°-60°	2781.7	15.9
60°-70°	1962.0	11.2
70°-80°	856.0	4.9
80°-90°	213.9	1.2
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°	4905.6	28.0
0°-40°	8328.9	47.6
0°-60°	14468.1	82.7
0°-90°	17500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17500.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6606	6606	6606	6606	6606	
5°	6672	6210	5360	4860	4714	634
15°	6430	4465	6109	6455	6435	1818
25°	6022	5510	6035	6076	6091	2776
35°	5418	5415	5478	5515	5542	3395
45°	4641	4656	4732	4191	2941	3583
55°	3644	3763	2313	2630	2881	3260
65°	2400	2541	2109	1622	1190	2359
75°	1034	1013	889	581	619	1109
85°	230	205	200	191	190	238
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6605.7	6605.7	6605.7	6605.7	6605.7
2.5°	6660.2	6522.0	6302.4	6025.9	5928.0
5°	6672.0	6210.0	5360.1	4860.1	4713.9
7.5°	6638.1	5643.6	4672.9	4777.9	4932.7
10°	6584.4	5146.0	4832.4	5685.5	6010.1
12.5°	6515.6	4703.7	5536.2	6422.4	6487.2
15°	6429.5	4465.1	6108.9	6454.8	6435.1
17.5°	6356.9	4604.9	6314.2	6390.0	6375.8
20°	6255.0	4883.8	6226.5	6287.4	6281.8
22.5°	6152.3	5213.9	6143.6	6187.1	6187.1
25°	6022.0	5510.1	6035.4	6075.7	6090.7
27.5°	5879.0	5680.7	5900.3	5933.5	5960.4
30°	5737.6	5705.2	5756.6	5799.2	5830.8
32.5°	5588.3	5575.7	5616.0	5661.0	5701.3
35°	5418.5	5415.3	5478.5	5514.9	5542.5
37.5°	5259.0	5247.9	5306.3	5356.9	5378.2
40°	5067.8	5067.8	5123.1	5174.4	5196.6
42.5°	4849.8	4880.6	4923.3	4976.2	4481.7
45°	4641.3	4655.5	4732.1	4191.0	2940.7
47.5°	4440.6	4458.8	4531.5	2694.2	2767.7
50°	4171.3	4253.4	4310.3	2686.3	2849.1
52.5°	3974.6	4010.2	3618.4	2659.5	2751.1
55°	3643.7	3762.9	2312.7	2629.5	2881.4
57.5°	3360.9	3447.8	2274.0	2694.2	2850.6
60°	3029.9	3162.6	2078.1	2599.5	2300.1
62.5°	2712.4	2838.8	2169.8	2045.8	1947.8
65°	2399.6	2541.0	2109.0	1622.4	1189.5
67.5°	2056.8	1924.9	1682.4	1142.9	1203.0
70°	1714.8	1344.4	1293.0	1278.0	1180.1
72.5°	1363.3	981.0	858.6	958.9	686.4
75°	1033.9	1013.4	889.4	581.3	619.3
77.5°	717.2	731.4	476.3	567.1	470.8
80°	477.9	413.9	431.3	361.8	357.0
82.5°	331.0	338.1	283.6	274.9	278.8
85°	229.9	204.6	199.8	191.1	189.6
87.5°	76.6	89.3	82.9	75.0	79.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)