

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-LD5-18SE-W-WG-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 (P33336)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-18SE-W-WG-UNV-L740-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

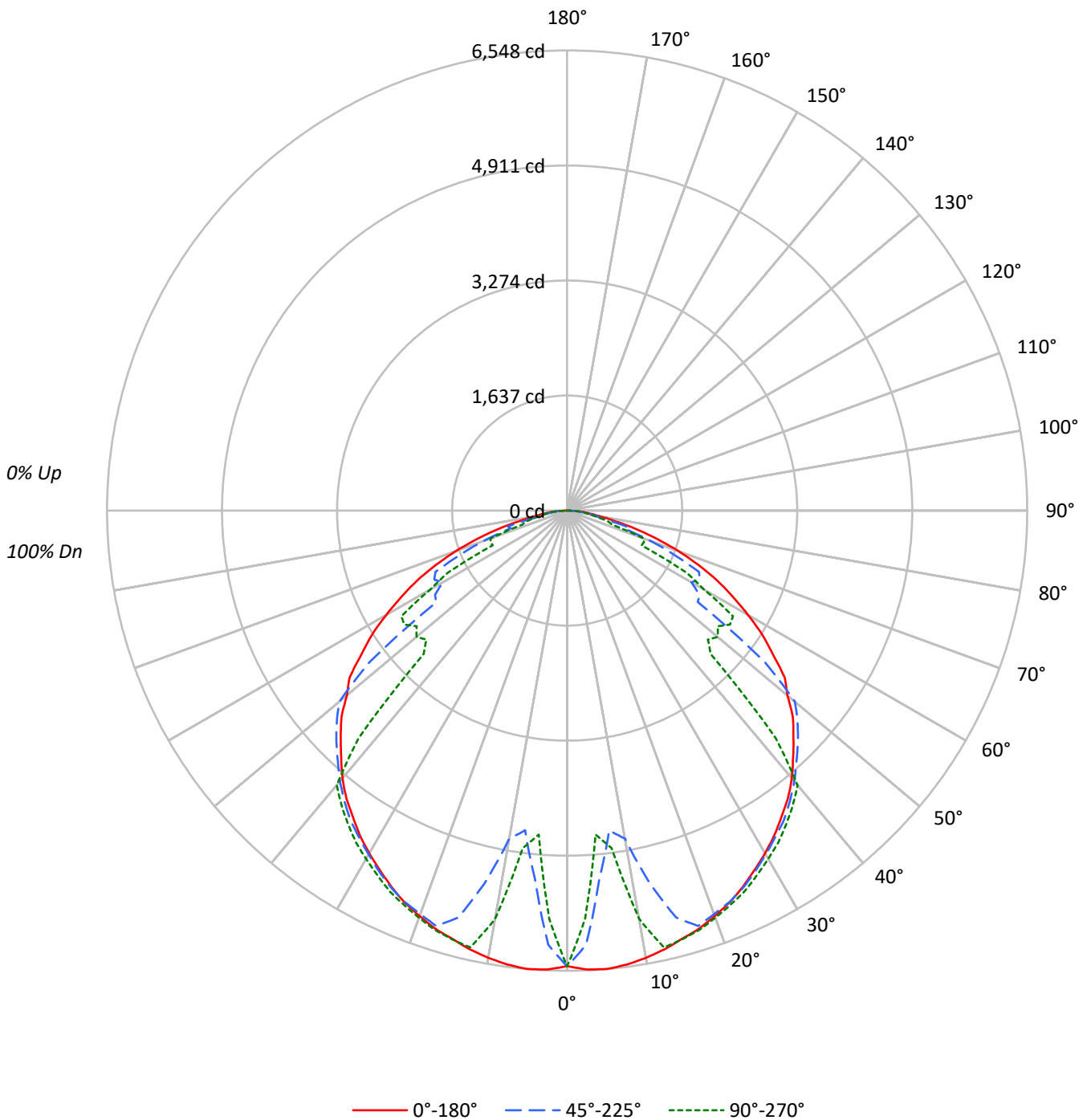
Lumens per Lamp: N/A  
Luminaire Lumens: 17175.0 lumens  
Efficiency: N/A  
Efficacy: 141.1 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 121.76  
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°	8723	8723	8723
5°	8844	7105	6249
10°	8829	6480	8059
15°	8790	8351	8797
20°	8790	8750	8828
25°	8774	8794	8874
30°	8749	8778	8891
35°	8735	8832	8935
40°	8736	8831	8958
45°	8667	8837	5492
50°	8569	8855	5853
55°	8389	5324	6634
60°	8002	5489	6075
65°	7498	6590	3717
70°	6621	4992	4556
75°	5275	4538	3160
80°	3634	3280	2715
85°	3483	3027	2871



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	518.4	3.0
10°-20°	1624.1	9.5
20°-30°	2672.0	15.6
30°-40°	3359.7	19.6
40°-50°	3295.0	19.2
50°-60°	2730.1	15.9
60°-70°	1925.6	11.2
70°-80°	840.1	4.9
80°-90°	209.9	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°	4814.5	28.0
0°-40°	8174.2	47.6
0°-60°	14199.4	82.7
0°-90°	17175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17175.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6483	6483	6483	6483	6483	
5°	6548	6095	5260	4770	4626	622
15°	6310	4382	5995	6335	6316	1784
25°	5910	5408	5923	5963	5978	2724
35°	5318	5315	5377	5412	5440	3332
45°	4555	4569	4644	4113	2886	3516
55°	3576	3693	2270	2581	2828	3200
65°	2355	2494	2070	1592	1168	2316
75°	1015	995	873	570	608	1088
85°	226	201	196	188	186	234
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6483.0	6483.0	6483.0	6483.0	6483.0
2.5°	6536.5	6400.8	6185.3	5914.0	5817.9
5°	6548.1	6094.6	5260.5	4769.8	4626.4
7.5°	6514.8	5538.8	4586.1	4689.2	4841.1
10°	6462.1	5050.4	4742.7	5579.9	5898.5
12.5°	6394.6	4616.3	5433.4	6303.2	6366.7
15°	6310.1	4382.2	5995.4	6334.9	6315.6
17.5°	6238.8	4519.4	6197.0	6271.4	6257.4
20°	6138.8	4793.1	6110.9	6170.6	6165.2
22.5°	6038.0	5117.1	6029.5	6072.1	6072.1
25°	5910.1	5407.8	5923.3	5962.8	5977.6
27.5°	5769.8	5575.2	5790.7	5823.3	5849.7
30°	5631.1	5599.3	5649.7	5691.5	5722.5
32.5°	5484.5	5472.1	5511.7	5555.9	5595.4
35°	5317.9	5314.8	5376.8	5412.5	5439.6
37.5°	5161.3	5150.4	5207.8	5257.4	5278.3
40°	4973.7	4973.7	5028.0	5078.3	5100.0
42.5°	4759.7	4790.0	4831.8	4883.8	4398.5
45°	4555.1	4569.0	4644.2	4113.2	2886.1
47.5°	4358.2	4376.0	4447.3	2644.2	2716.3
50°	4093.8	4174.5	4230.3	2636.5	2796.1
52.5°	3900.8	3935.7	3551.2	2610.1	2700.0
55°	3576.0	3693.1	2269.8	2580.6	2827.9
57.5°	3298.5	3383.8	2231.8	2644.2	2797.7
60°	2973.7	3103.9	2039.6	2551.2	2257.4
62.5°	2662.0	2786.1	2129.5	2007.8	1911.6
65°	2355.1	2493.8	2069.8	1592.3	1167.5
67.5°	2018.6	1889.2	1651.2	1121.7	1180.6
70°	1683.0	1319.4	1269.0	1254.3	1158.1
72.5°	1338.0	962.8	842.6	941.1	673.6
75°	1014.7	994.6	872.9	570.5	607.8
77.5°	703.9	717.8	467.4	556.6	462.0
80°	469.0	406.2	423.3	355.0	350.4
82.5°	324.8	331.8	278.3	269.8	273.6
85°	225.6	200.8	196.1	187.6	186.0
87.5°	75.2	87.6	81.4	73.6	78.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)