

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-L835-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-L835-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

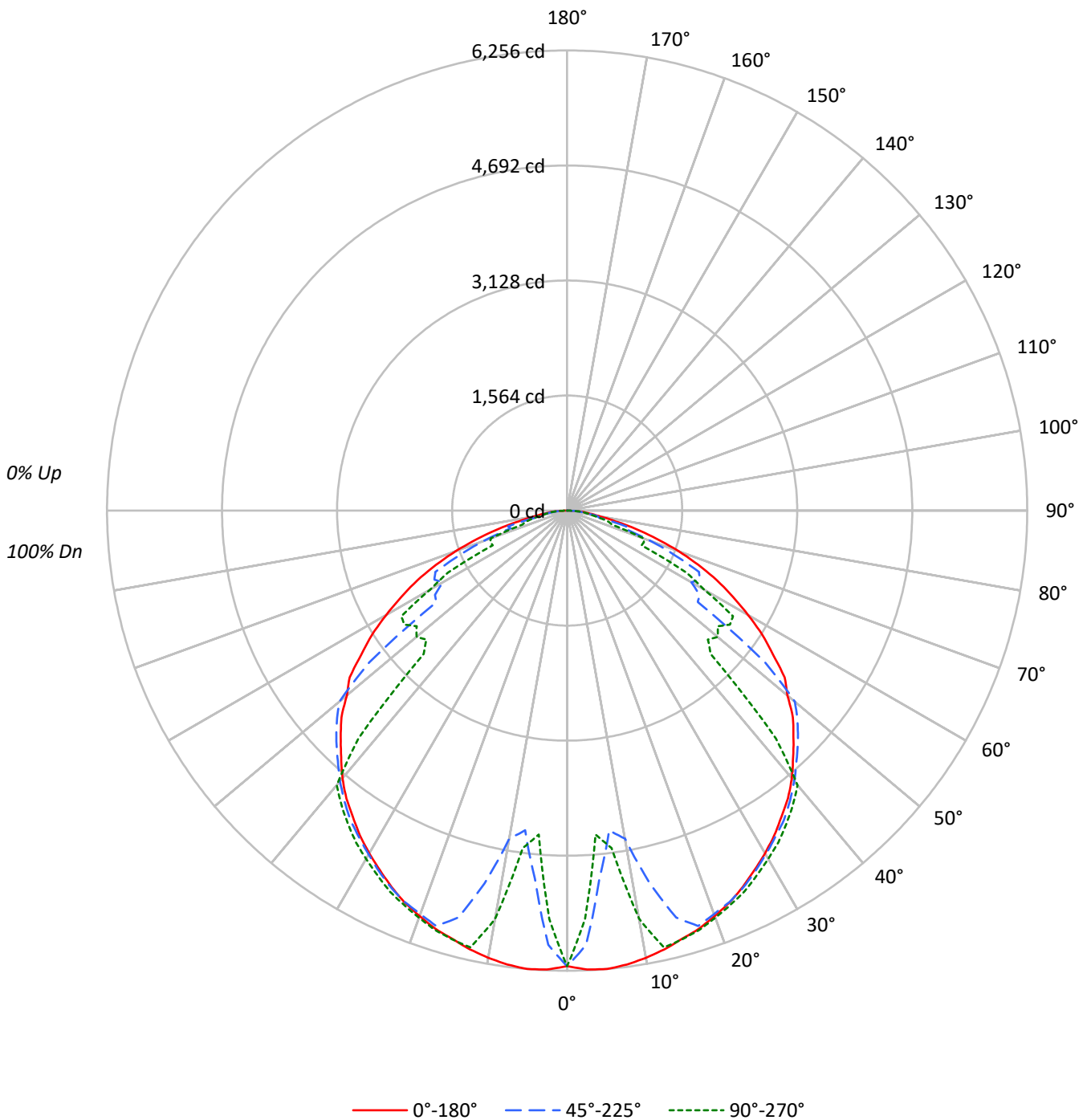
Lumens per Lamp: N/A  
Luminaire Lumens: 16409.0 lumens  
Efficiency: N/A  
Efficacy: 134.8 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	8334	8334	8334
5°	8450	6788	5970
10°	8435	6191	7699
15°	8398	7979	8405
20°	8398	8360	8434
25°	8383	8401	8478
30°	8358	8386	8494
35°	8345	8438	8536
40°	8346	8437	8558
45°	8281	8443	5247
50°	8187	8460	5592
55°	8014	5087	6338
60°	7645	5244	5804
65°	7163	6296	3551
70°	6325	4770	4353
75°	5040	4335	3019
80°	3472	3133	2594
85°	3327	2893	2745



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	495.3	3.0
10°-20°	1551.7	9.5
20°-30°	2552.8	15.6
30°-40°	3209.9	19.6
40°-50°	3148.1	19.2
50°-60°	2608.3	15.9
60°-70°	1839.7	11.2
70°-80°	802.7	4.9
80°-90°	200.5	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°	4599.8	28.0
0°-40°	7809.7	47.6
0°-60°	13566.1	82.7
0°-90°	16409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16409.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6194	6194	6194	6194	6194	
5°	6256	5823	5026	4557	4420	594
15°	6029	4187	5728	6052	6034	1705
25°	5646	5167	5659	5697	5711	2603
35°	5081	5078	5137	5171	5197	3183
45°	4352	4365	4437	3930	2757	3359
55°	3416	3528	2169	2466	2702	3057
65°	2250	2383	1978	1521	1115	2212
75°	970	950	834	545	581	1040
85°	216	192	187	179	178	224
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6193.9	6193.9	6193.9	6193.9	6193.9
2.5°	6245.0	6115.4	5909.5	5650.2	5558.4
5°	6256.1	5822.8	5025.9	4557.1	4420.1
7.5°	6224.2	5291.8	4381.5	4480.1	4625.2
10°	6173.9	4825.2	4531.2	5331.0	5635.4
12.5°	6109.4	4410.4	5191.1	6022.0	6082.8
15°	6028.7	4186.8	5728.0	6052.4	6033.9
17.5°	5960.6	4317.9	5920.6	5991.7	5978.3
20°	5865.0	4579.3	5838.4	5895.4	5890.2
22.5°	5768.7	4888.9	5760.6	5801.3	5801.3
25°	5646.5	5166.6	5659.1	5696.9	5711.0
27.5°	5512.5	5326.6	5532.5	5563.6	5588.8
30°	5379.9	5349.5	5397.7	5437.7	5467.3
32.5°	5239.9	5228.1	5265.9	5308.1	5345.8
35°	5080.7	5077.7	5137.0	5171.1	5197.0
37.5°	4931.1	4920.7	4975.5	5022.9	5042.9
40°	4751.9	4751.9	4803.7	4851.8	4872.6
42.5°	4547.5	4576.3	4616.3	4666.0	4202.3
45°	4351.9	4365.3	4437.1	3929.8	2757.4
47.5°	4163.8	4180.8	4249.0	2526.3	2595.2
50°	3911.3	3988.3	4041.6	2518.9	2671.4
52.5°	3726.8	3760.2	3392.8	2493.7	2579.6
55°	3416.5	3528.3	2168.6	2465.5	2701.8
57.5°	3151.4	3232.8	2132.3	2526.3	2672.9
60°	2841.0	2965.5	1948.6	2437.4	2156.7
62.5°	2543.3	2661.8	2034.5	1918.2	1826.4
65°	2250.0	2382.6	1977.5	1521.2	1115.4
67.5°	1928.6	1804.9	1577.5	1071.7	1128.0
70°	1607.9	1260.5	1212.4	1198.3	1106.5
72.5°	1278.3	919.9	805.1	899.1	643.6
75°	969.5	950.2	833.9	545.1	580.7
77.5°	672.5	685.8	446.6	531.8	441.4
80°	448.1	388.1	404.4	339.2	334.8
82.5°	310.3	317.0	265.9	257.7	261.4
85°	215.5	191.8	187.4	179.2	177.8
87.5°	71.8	83.7	77.8	70.4	74.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)