

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-AI-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 (P23765)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-18SE-W-AI-UNV-L835-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

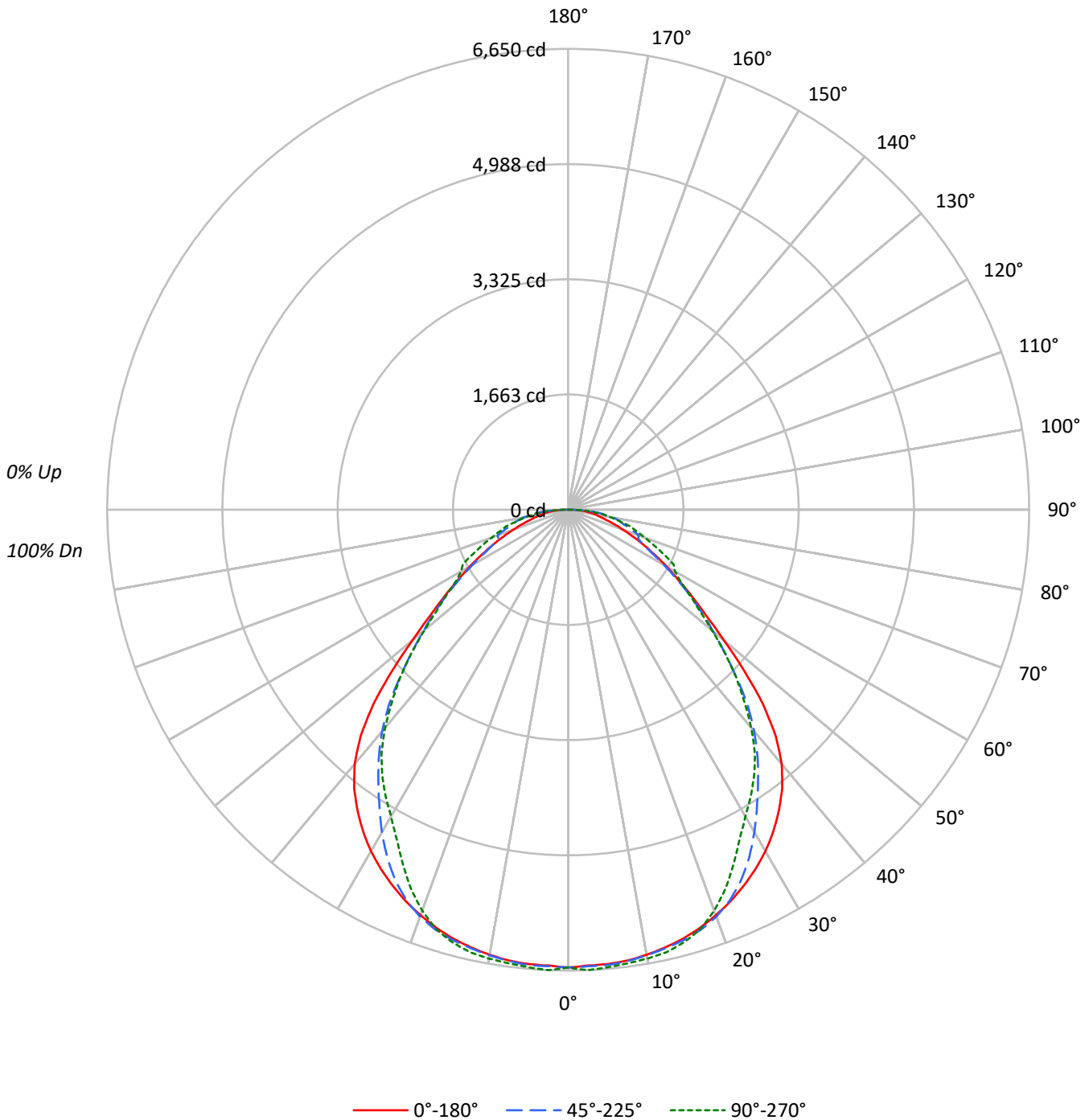
Lumens per Lamp: N/A  
Luminaire Lumens: 15291.0 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

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

	0°	45°	90°
0°	8889	8889	8889
5°	8888	8907	8951
10°	8910	8921	8987
15°	8924	8957	9001
20°	8915	8948	8815
25°	8892	8759	8378
30°	8840	8346	7939
35°	8707	7844	7681
40°	8416	7334	7213
45°	7564	6549	6525
50°	6135	5704	5665
55°	5094	4999	4998
60°	4411	4282	4787
65°	3822	3799	4825
70°	3296	4261	4600
75°	2955	4367	4795
80°	3072	5141	4811
85°	3487	5925	5497



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	629.0	4.1
10°-20°	1816.6	11.9
20°-30°	2698.0	17.6
30°-40°	3063.0	20.0
40°-50°	2738.2	17.9
50°-60°	1893.2	12.4
60°-70°	1249.2	8.2
70°-80°	842.8	5.5
80°-90°	361.0	2.4
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°	5143.6	33.6
0°-40°	8206.6	53.7
0°-60°	12838.0	84.0
0°-90°	15291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15291.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6606	6606	6606	6606	6606	
5°	6581	6621	6595	6622	6627	626
15°	6406	6437	6430	6466	6462	1808
25°	5990	6047	5900	5724	5643	2760
35°	5301	5189	4776	4706	4676	3306
45°	3975	3639	3442	3468	3429	3023
55°	2172	1982	2131	2101	2130	1972
65°	1201	1066	1193	1395	1516	1198
75°	568	715	840	898	922	621
85°	226	314	384	386	356	236
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6606.2	6606.2	6606.2	6606.2	6606.2
2.5°	6583.7	6624.9	6594.2	6622.6	6650.3
5°	6580.8	6621.1	6595.0	6621.9	6627.1
7.5°	6562.0	6599.5	6568.8	6595.0	6600.9
10°	6521.7	6565.8	6529.9	6570.3	6577.8
12.5°	6469.3	6514.2	6482.8	6538.1	6541.1
15°	6406.5	6437.1	6430.4	6466.3	6461.8
17.5°	6327.2	6362.3	6357.1	6366.1	6345.1
20°	6226.2	6265.8	6249.4	6208.2	6156.6
22.5°	6117.7	6165.6	6100.5	5996.5	5923.9
25°	5989.8	6046.6	5900.0	5724.2	5643.4
27.5°	5848.4	5899.3	5655.4	5439.9	5356.2
30°	5689.8	5711.5	5371.9	5166.9	5110.0
32.5°	5506.5	5475.1	5068.9	4933.5	4900.6
35°	5300.8	5189.3	4775.7	4706.1	4676.2
37.5°	5068.9	4864.7	4486.2	4454.0	4422.6
40°	4791.4	4489.9	4175.7	4154.8	4106.9
42.5°	4433.0	4082.2	3830.9	3806.2	3763.5
45°	3975.2	3638.6	3441.9	3468.0	3429.1
47.5°	3448.6	3193.5	3068.6	3140.4	3068.6
50°	2930.9	2759.6	2725.2	2790.3	2706.5
52.5°	2506.8	2352.7	2423.7	2435.0	2384.8
55°	2171.6	1982.4	2131.2	2101.3	2130.5
57.5°	1879.9	1668.2	1851.5	1817.1	1917.3
60°	1639.0	1401.1	1591.1	1583.7	1778.9
62.5°	1402.6	1212.6	1365.2	1475.2	1715.3
65°	1200.6	1066.0	1193.2	1395.1	1515.6
67.5°	1006.9	956.0	1091.4	1203.6	1335.3
70°	837.8	864.0	1083.2	1062.3	1169.2
72.5°	695.7	784.7	956.0	959.8	1035.3
75°	568.5	715.2	840.1	897.7	922.4
77.5°	472.8	648.6	758.5	778.7	754.8
80°	396.5	571.5	663.5	654.6	620.9
82.5°	320.2	433.1	522.9	531.1	491.5
85°	225.9	314.2	383.8	386.0	356.1
87.5°	121.2	193.7	232.6	239.4	221.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)