

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-N-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 (P23767)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-18SE-N-UNV-L835-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

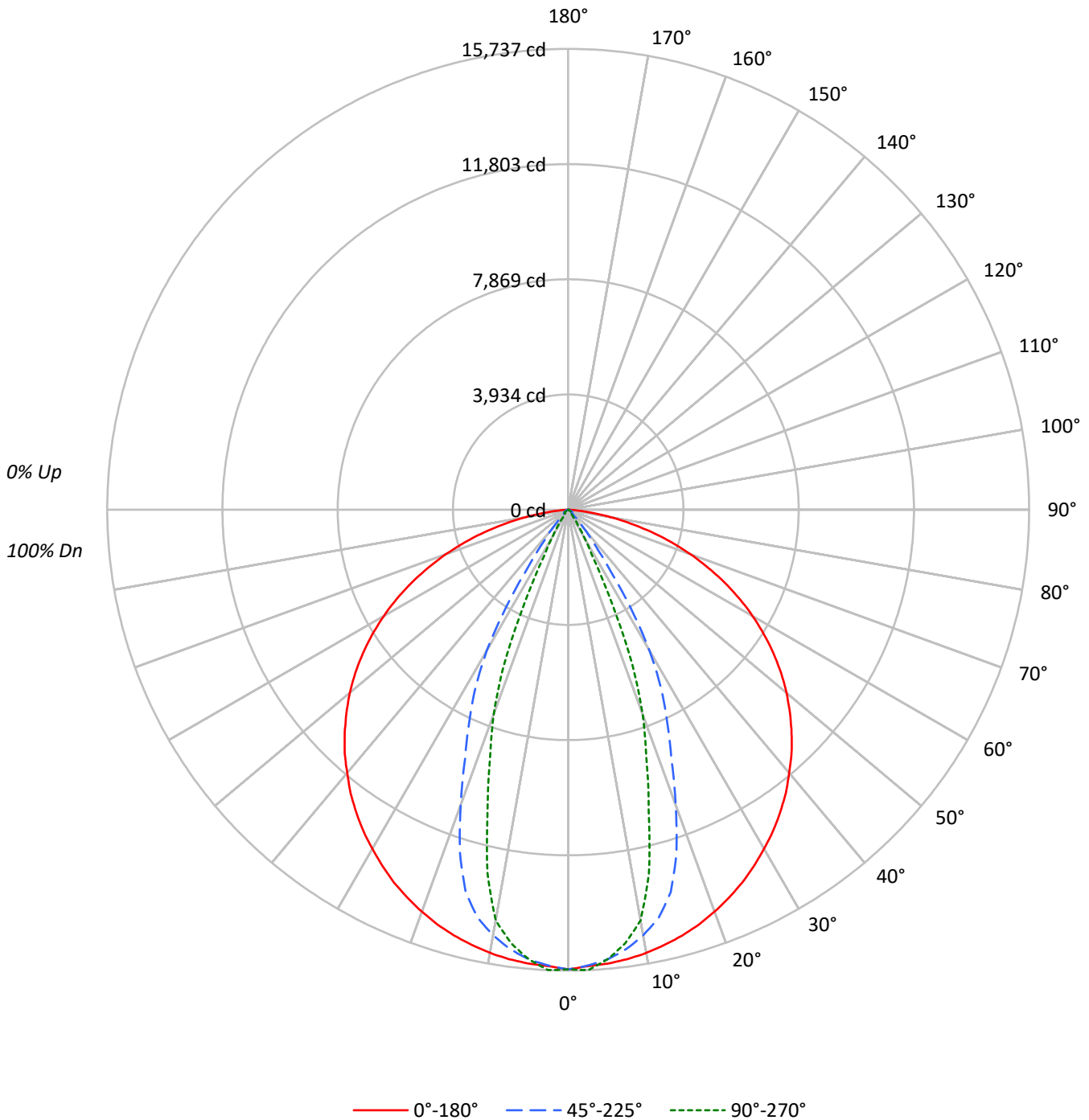
Lumens per Lamp: N/A  
Luminaire Lumens: 16686.0 lumens  
Efficiency: N/A  
Efficacy: 137.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

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

	0°	45°	90°
0°	21123	21123	21123
5°	21010	20824	20815
10°	20997	20157	19450
15°	20967	18831	14802
20°	20918	15351	10655
25°	20865	11870	5249
30°	20773	8627	1702
35°	20724	3827	438
40°	20615	1554	295
45°	20523	436	314
50°	20363	310	349
55°	20070	368	149
60°	19574	410	90
65°	18769	262	107
70°	17437	232	132
75°	15254	175	182
80°	11406	214	260
85°	5649	276	346



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1456.9	8.7
10°-20°	3642.9	21.8
20°-30°	3945.9	23.6
30°-40°	2922.1	17.5
40°-50°	2104.7	12.6
50°-60°	1303.2	7.8
60°-70°	801.5	4.8
70°-80°	422.5	2.5
80°-90°	86.5	0.5
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°	9045.7	54.2
0°-40°	11967.8	71.7
0°-60°	15375.6	92.1
0°-90°	16686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16686.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15699	15699	15699	15699	15699	
5°	15556	15613	15418	15429	15411	###
15°	15052	14703	13519	11497	10626	4249
25°	14054	12874	7996	5030	3536	6476
35°	12617	8895	2330	548	267	7893
45°	10786	5011	229	166	165	8318
55°	8556	1032	157	142	64	7638
65°	5895	109	82	52	34	5817
75°	2934	25	34	44	35	3099
85°	366	10	18	27	22	553
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	15698.9	15698.9	15698.9	15698.9	15698.9
2.5°	15598.1	15697.5	15580.2	15667.6	15737.0
5°	15555.6	15613.1	15418.1	15429.3	15411.4
7.5°	15480.9	15467.4	15139.6	14996.2	14933.5
10°	15368.1	15279.2	14753.5	14454.0	14235.9
12.5°	15222.5	15023.8	14271.8	13319.6	12728.1
15°	15052.2	14702.7	13519.0	11496.6	10626.5
17.5°	14849.1	14353.9	12288.2	9635.5	8858.8
20°	14609.3	13964.8	10721.4	8197.9	7441.3
22.5°	14342.0	13491.3	9199.4	6813.3	5734.1
25°	14054.4	12873.7	7995.5	5029.8	3535.5
27.5°	13722.1	12079.8	6866.3	2962.6	1804.3
30°	13370.4	11123.9	5552.6	1593.7	1095.6
32.5°	13015.6	10040.3	3929.0	995.5	621.4
35°	12616.8	8894.7	2330.1	548.2	266.6
37.5°	12200.8	7844.6	1377.1	249.4	171.0
40°	11737.1	6885.0	885.0	165.8	168.0
42.5°	11289.0	5990.3	498.1	163.6	166.5
45°	10785.6	5011.2	229.3	165.8	165.0
47.5°	10265.1	3996.2	148.6	167.3	167.3
50°	9728.1	2857.3	147.9	171.0	166.5
52.5°	9161.3	1782.7	153.8	170.3	136.7
55°	8555.6	1032.1	156.8	141.9	63.5
57.5°	7928.3	608.7	158.3	81.4	35.8
60°	7274.0	336.8	152.4	60.5	33.6
62.5°	6599.7	160.6	120.2	56.8	32.9
65°	5895.4	109.0	82.2	52.3	33.6
67.5°	5164.3	84.4	65.0	49.3	34.4
70°	4432.4	62.7	59.0	49.3	33.6
72.5°	3688.6	42.6	49.3	50.0	33.6
75°	2934.3	25.4	33.6	44.1	35.1
77.5°	2186.7	15.7	26.1	45.6	42.6
80°	1472.0	13.4	27.6	42.6	33.6
82.5°	864.1	11.9	26.9	32.9	26.9
85°	365.9	9.7	17.9	26.9	22.4
87.5°	68.7	8.2	14.2	21.7	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)