

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-CL-UNV-L735-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 (P23762)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-18HE-W-CL-UNV-L735-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

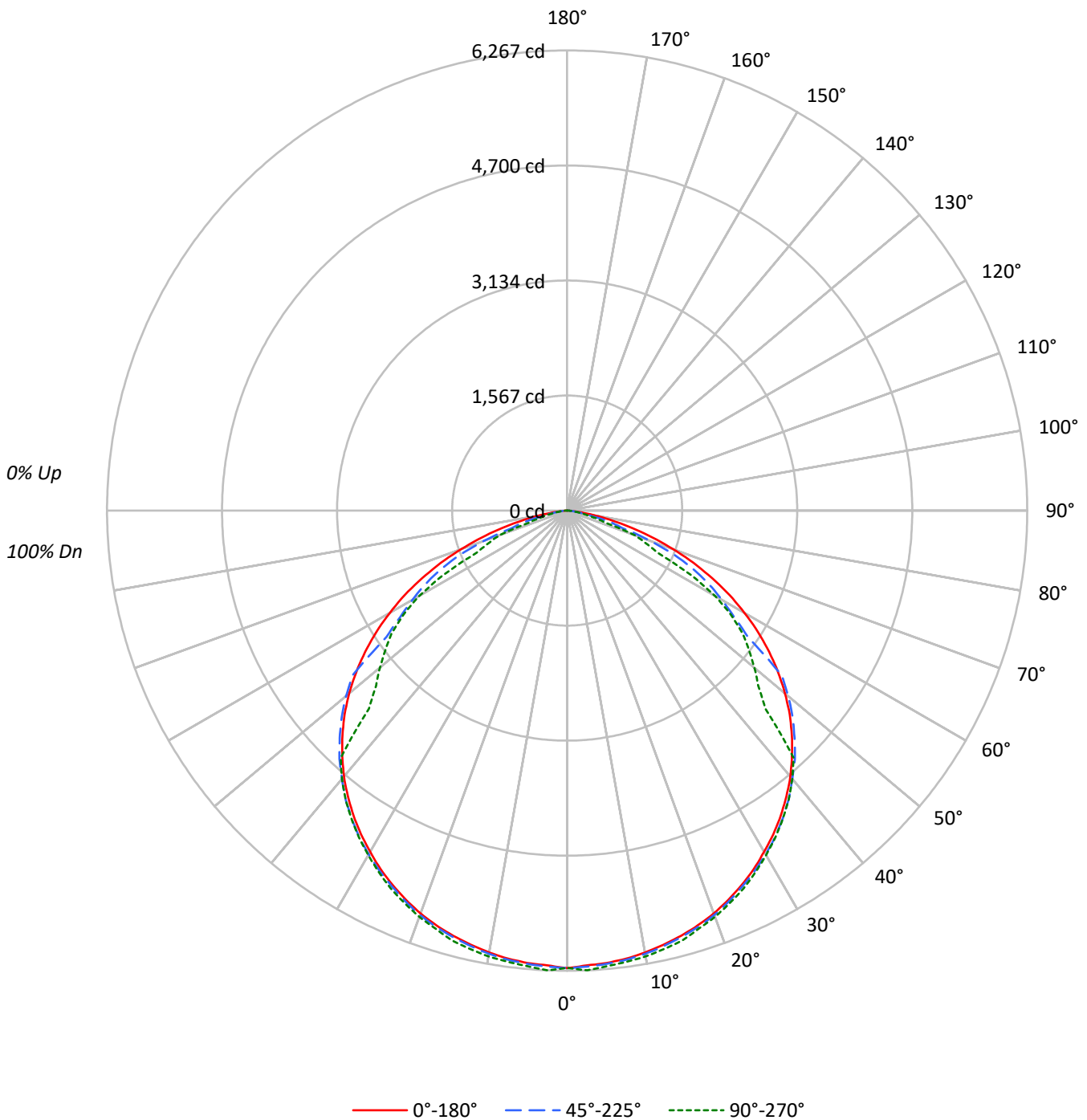
Lumens per Lamp: N/A  
Luminaire Lumens: 16843.0 lumens  
Efficiency: N/A  
Efficacy: 150.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64					62				
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55					53				
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48					46				
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42					40				
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38					36				
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34					32				
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30					29				
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28					26				

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

	0°	45°	90°
0°	8383	8383	8383
5°	8352	8371	8412
10°	8351	8375	8424
15°	8351	8376	8444
20°	8361	8393	8432
25°	8352	8383	8434
30°	8336	8397	8416
35°	8332	8408	8414
40°	8306	8379	8379
45°	8235	8334	7262
50°	8108	8230	6967
55°	7878	7045	6844
60°	7508	6548	6252
65°	6943	6079	4330
70°	6046	4730	3858
75°	4775	3175	2074
80°	3074	1516	1293
85°	1264	925	1019



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	591.0	3.5
10°-20°	1703.4	10.1
20°-30°	2611.6	15.5
30°-40°	3200.9	19.0
40°-50°	3290.8	19.5
50°-60°	2808.5	16.7
60°-70°	1856.8	11.0
70°-80°	687.9	4.1
80°-90°	92.0	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°	4906.0	29.1
0°-40°	8107.0	48.1
0°-60°	14206.3	84.3
0°-90°	16843.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16843.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6230	6230	6230	6230	6230	
5°	6184	6227	6198	6222	6228	588
15°	5995	6031	6013	6059	6062	1693
25°	5626	5655	5647	5698	5681	2594
35°	5073	5108	5119	5151	5123	3173
45°	4328	4371	4380	4373	3816	3335
55°	3358	3420	3003	2916	2918	2996
65°	2181	2199	1909	1570	1360	2150
75°	919	805	611	410	399	986
85°	82	58	60	65	66	135
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6230.2	6230.2	6230.2	6230.2	6230.2
2.5°	6199.8	6238.5	6215.7	6244.6	6266.6
5°	6183.9	6227.1	6197.5	6221.8	6227.9
7.5°	6156.6	6196.8	6169.5	6201.3	6196.8
10°	6112.6	6149.0	6130.0	6163.4	6165.7
12.5°	6056.4	6092.9	6075.4	6116.4	6115.6
15°	5995.0	6031.4	6013.2	6058.7	6061.8
17.5°	5922.9	5956.3	5942.7	5984.4	5967.7
20°	5839.5	5868.3	5861.5	5900.9	5888.8
22.5°	5737.1	5766.7	5759.8	5805.4	5787.2
25°	5625.6	5655.2	5646.8	5697.6	5681.0
27.5°	5505.0	5533.0	5532.3	5580.1	5554.3
30°	5365.4	5402.6	5404.8	5447.3	5417.0
32.5°	5227.3	5262.2	5272.1	5303.2	5277.4
35°	5072.6	5107.5	5118.9	5150.7	5122.6
37.5°	4905.7	4935.3	4955.8	4979.3	4957.3
40°	4728.9	4755.5	4770.7	4799.5	4770.7
42.5°	4531.7	4569.6	4590.9	4611.4	4564.3
45°	4327.7	4370.9	4380.0	4373.2	3816.4
47.5°	4111.5	4158.5	4163.8	3631.3	3528.9
50°	3873.3	3932.4	3931.7	3355.9	3328.6
52.5°	3625.2	3682.1	3679.8	3140.5	3122.3
55°	3358.2	3419.6	3003.2	2916.0	2917.5
57.5°	3085.9	3129.9	2694.5	2698.2	2648.2
60°	2790.0	2831.8	2433.5	2410.0	2323.5
62.5°	2493.4	2510.9	2180.9	2066.4	1901.7
65°	2180.9	2199.1	1909.3	1570.2	1360.1
67.5°	1860.0	1878.2	1584.7	1168.2	1152.3
70°	1536.9	1388.2	1202.3	973.2	980.8
72.5°	1218.3	1066.6	785.9	754.0	544.7
75°	918.6	804.8	610.7	410.4	399.0
77.5°	639.5	554.5	326.9	279.9	261.7
80°	396.7	278.4	195.7	173.7	166.9
82.5°	201.0	160.1	106.2	106.2	106.2
85°	81.9	58.4	59.9	65.2	66.0
87.5°	17.4	23.5	28.8	29.6	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)