

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-N-CLI-UNV-L835-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 (P23769)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-18HE-N-CLI-UNV-L835-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

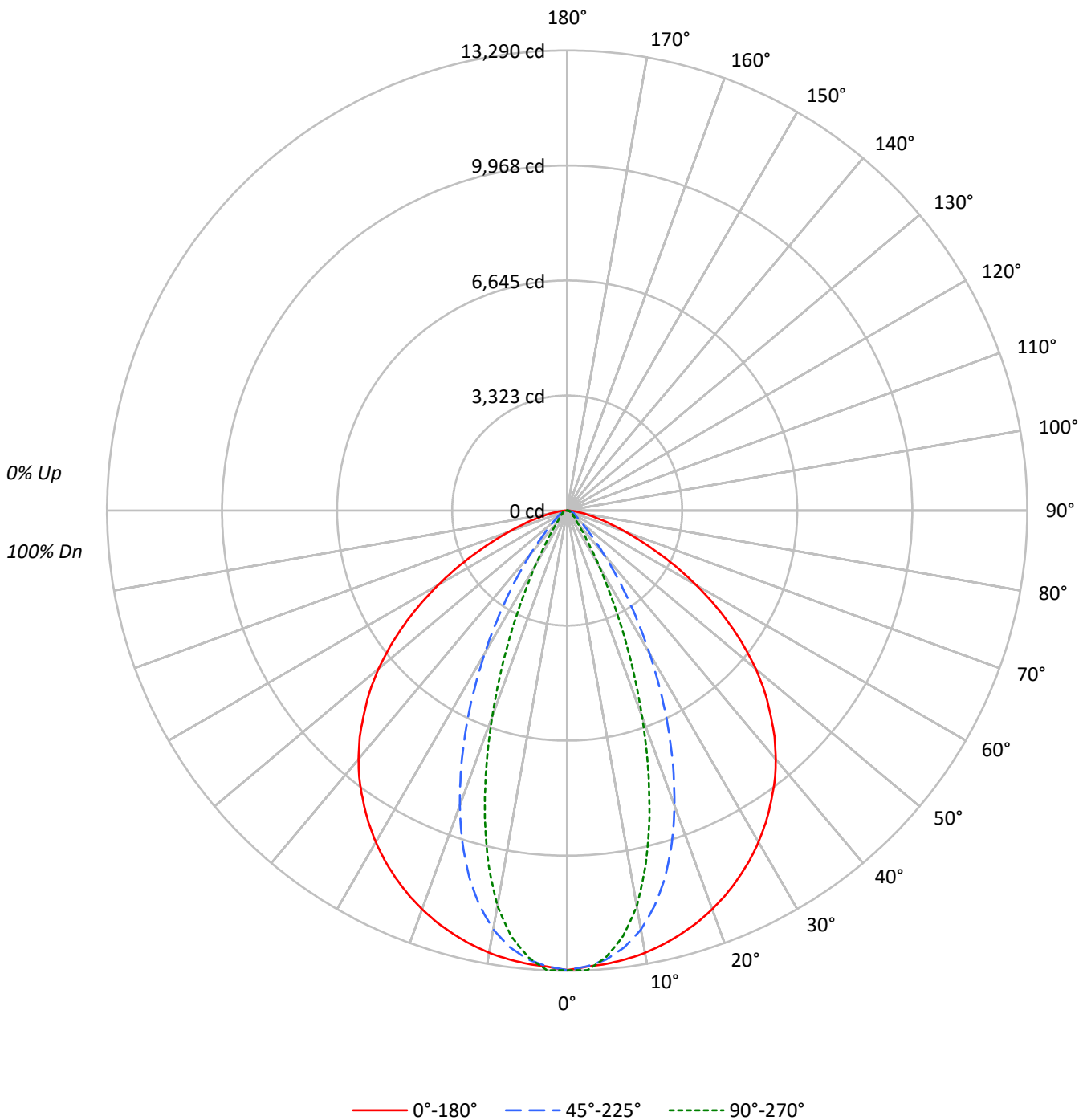
Lumens per Lamp: N/A  
Luminaire Lumens: 14530.0 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	17857	17857	17857
5°	17750	17574	17481
10°	17720	16778	15832
15°	17649	15251	12786
20°	17543	12977	9062
25°	17386	10233	5475
30°	17175	7385	2814
35°	16865	4828	1405
40°	16465	2900	820
45°	15781	1732	613
50°	14884	1133	515
55°	13471	859	449
60°	11576	732	410
65°	9312	668	387
70°	7015	715	385
75°	5160	679	396
80°	3775	677	433
85°	2828	820	562



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1222.3	8.4
10°-20°	3040.8	20.9
20°-30°	3368.1	23.2
30°-40°	2698.5	18.6
40°-50°	1926.4	13.3
50°-60°	1237.3	8.5
60°-70°	670.5	4.6
70°-80°	286.6	2.0
80°-90°	79.5	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°	7631.2	52.5
0°-40°	10329.7	71.1
0°-60°	13493.4	92.9
0°-90°	14530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14530.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13272	13272	13272	13272	13272	
5°	13142	13191	13011	12970	12943	###
15°	12670	12274	10948	9676	9179	3575
25°	11711	10326	6893	4491	3688	5395
35°	10268	7427	2940	1186	856	6420
45°	8294	4287	910	387	322	6392
55°	5743	1917	366	225	192	5118
65°	2925	787	210	145	122	2929
75°	993	288	131	91	76	1103
85°	183	76	53	44	36	224
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13272.1	13272.1	13272.1	13272.1	13272.1
2.5°	13184.7	13267.2	13178.4	13233.7	13290.3
5°	13142.1	13191.0	13011.4	12970.1	12942.9
7.5°	13068.0	13054.0	12716.4	12497.6	12392.0
10°	12970.1	12856.9	12280.2	11799.2	11588.1
12.5°	12830.3	12596.8	11689.5	10845.0	10487.1
15°	12670.2	12273.9	10948.5	9675.5	9179.2
17.5°	12478.7	11896.4	10062.8	8421.4	7766.4
20°	12252.2	11440.6	9063.1	7089.0	6329.2
22.5°	11999.1	10914.9	7992.9	5760.8	4945.8
25°	11711.1	10326.3	6892.6	4490.7	3688.2
27.5°	11400.1	9672.7	5798.6	3355.4	2623.5
30°	11054.7	8965.3	4753.5	2419.4	1811.2
32.5°	10677.9	8213.1	3782.5	1701.5	1238.7
35°	10267.6	7426.7	2939.5	1185.6	855.6
37.5°	9847.5	6624.2	2220.2	838.2	613.8
40°	9374.2	5824.5	1651.1	613.8	467.0
42.5°	8866.0	5040.1	1221.9	472.6	378.2
45°	8293.5	4287.3	910.2	387.3	322.3
47.5°	7738.4	3585.4	691.4	330.0	280.3
50°	7110.7	2952.1	541.1	288.0	246.1
52.5°	6444.5	2394.9	439.0	253.8	216.7
55°	5742.7	1916.8	366.3	225.1	191.5
57.5°	5031.7	1518.3	313.2	200.6	170.6
60°	4301.9	1214.2	271.9	179.7	152.4
62.5°	3589.6	971.0	237.7	161.5	136.3
65°	2924.8	787.1	209.7	144.7	121.6
67.5°	2310.4	622.2	195.7	130.0	109.8
70°	1783.3	484.4	181.8	116.0	97.9
72.5°	1351.3	371.9	160.8	103.5	86.7
75°	992.6	288.0	130.7	90.9	76.2
77.5°	710.2	221.6	106.3	79.0	65.7
80°	487.2	165.0	87.4	67.8	55.9
82.5°	316.7	116.7	70.6	55.9	46.1
85°	183.2	76.2	53.1	44.0	36.4
87.5°	79.0	41.9	36.4	32.9	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)