

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-LD5-15HE-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-LD5-15HE-W-AI-UNV-L835-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

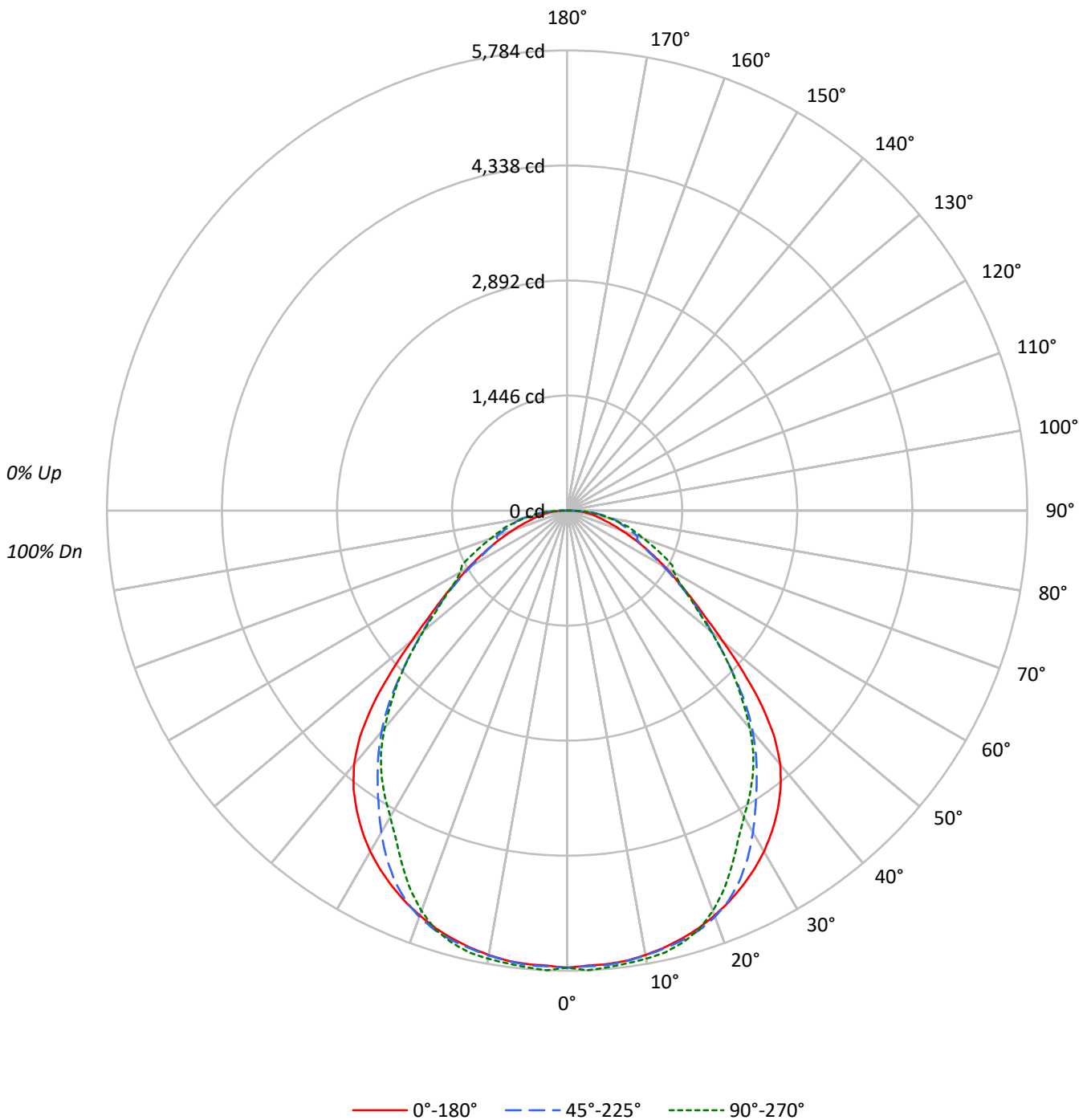
Lumens per Lamp: N/A  
Luminaire Lumens: 13298.0 lumens  
Efficiency: N/A  
Efficacy: 144.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 91.8  
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°	7730	7730	7730
5°	7730	7746	7784
10°	7749	7759	7815
15°	7761	7790	7828
20°	7753	7782	7666
25°	7733	7617	7286
30°	7688	7258	6904
35°	7572	6822	6680
40°	7319	6378	6273
45°	6578	5696	5675
50°	5335	4961	4927
55°	4430	4348	4346
60°	3836	3724	4163
65°	3324	3304	4196
70°	2866	3706	4000
75°	2570	3798	4170
80°	2672	4472	4184
85°	3034	5152	4781



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	547.0	4.1
10°-20°	1579.8	11.9
20°-30°	2346.4	17.6
30°-40°	2663.8	20.0
40°-50°	2381.3	17.9
50°-60°	1646.4	12.4
60°-70°	1086.4	8.2
70°-80°	732.9	5.5
80°-90°	313.9	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°	4473.2	33.6
0°-40°	7137.0	53.7
0°-60°	11164.7	84.0
0°-90°	13298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13298.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5745	5745	5745	5745	5745	
5°	5723	5758	5735	5759	5763	545
15°	5571	5598	5592	5624	5620	1573
25°	5209	5258	5131	4978	4908	2400
35°	4610	4513	4153	4093	4067	2875
45°	3457	3164	2993	3016	2982	2629
55°	1889	1724	1854	1827	1853	1715
65°	1044	927	1038	1213	1318	1042
75°	494	622	731	781	802	540
85°	196	273	334	336	310	205
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5745.1	5745.1	5745.1	5745.1	5745.1
2.5°	5725.6	5761.4	5734.7	5759.5	5783.5
5°	5723.0	5758.2	5735.4	5758.8	5763.4
7.5°	5706.8	5739.3	5712.6	5735.4	5740.6
10°	5671.6	5710.0	5678.8	5713.9	5720.4
12.5°	5626.1	5665.1	5637.8	5685.9	5688.5
15°	5571.4	5598.1	5592.3	5623.5	5619.6
17.5°	5502.5	5533.1	5528.5	5536.3	5518.1
20°	5414.7	5449.1	5434.8	5399.0	5354.2
22.5°	5320.3	5362.0	5305.4	5214.9	5151.8
25°	5209.1	5258.5	5131.0	4978.1	4907.9
27.5°	5086.1	5130.4	4918.3	4730.9	4658.1
30°	4948.2	4967.1	4671.7	4493.5	4444.0
32.5°	4788.8	4761.5	4408.2	4290.5	4261.9
35°	4609.9	4513.0	4153.2	4092.7	4066.7
37.5°	4408.2	4230.6	3901.4	3873.5	3846.1
40°	4166.9	3904.7	3631.5	3613.2	3571.6
42.5°	3855.3	3550.1	3331.5	3310.1	3273.0
45°	3457.1	3164.4	2993.3	3016.0	2982.2
47.5°	2999.1	2777.3	2668.6	2731.1	2668.6
50°	2548.9	2399.9	2370.0	2426.6	2353.7
52.5°	2180.0	2046.0	2107.8	2117.6	2074.0
55°	1888.6	1724.0	1853.5	1827.4	1852.8
57.5°	1634.9	1450.8	1610.2	1580.2	1667.4
60°	1425.4	1218.5	1383.8	1377.2	1547.0
62.5°	1219.8	1054.6	1187.3	1282.9	1491.7
65°	1044.2	927.1	1037.7	1213.3	1318.0
67.5°	875.7	831.4	949.2	1046.8	1161.3
70°	728.6	751.4	942.0	923.8	1016.8
72.5°	605.0	682.4	831.4	834.7	900.4
75°	494.4	621.9	730.6	780.7	802.1
77.5°	411.2	564.0	659.7	677.2	656.4
80°	344.8	497.0	577.1	569.2	540.0
82.5°	278.4	376.7	454.7	461.9	427.4
85°	196.5	273.2	333.7	335.7	309.7
87.5°	105.4	168.5	202.3	208.2	192.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)