

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-LD5-36HE-W-AI-UNV-L735-ED3-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-LD5-36HE-W-AI-UNV-L735-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

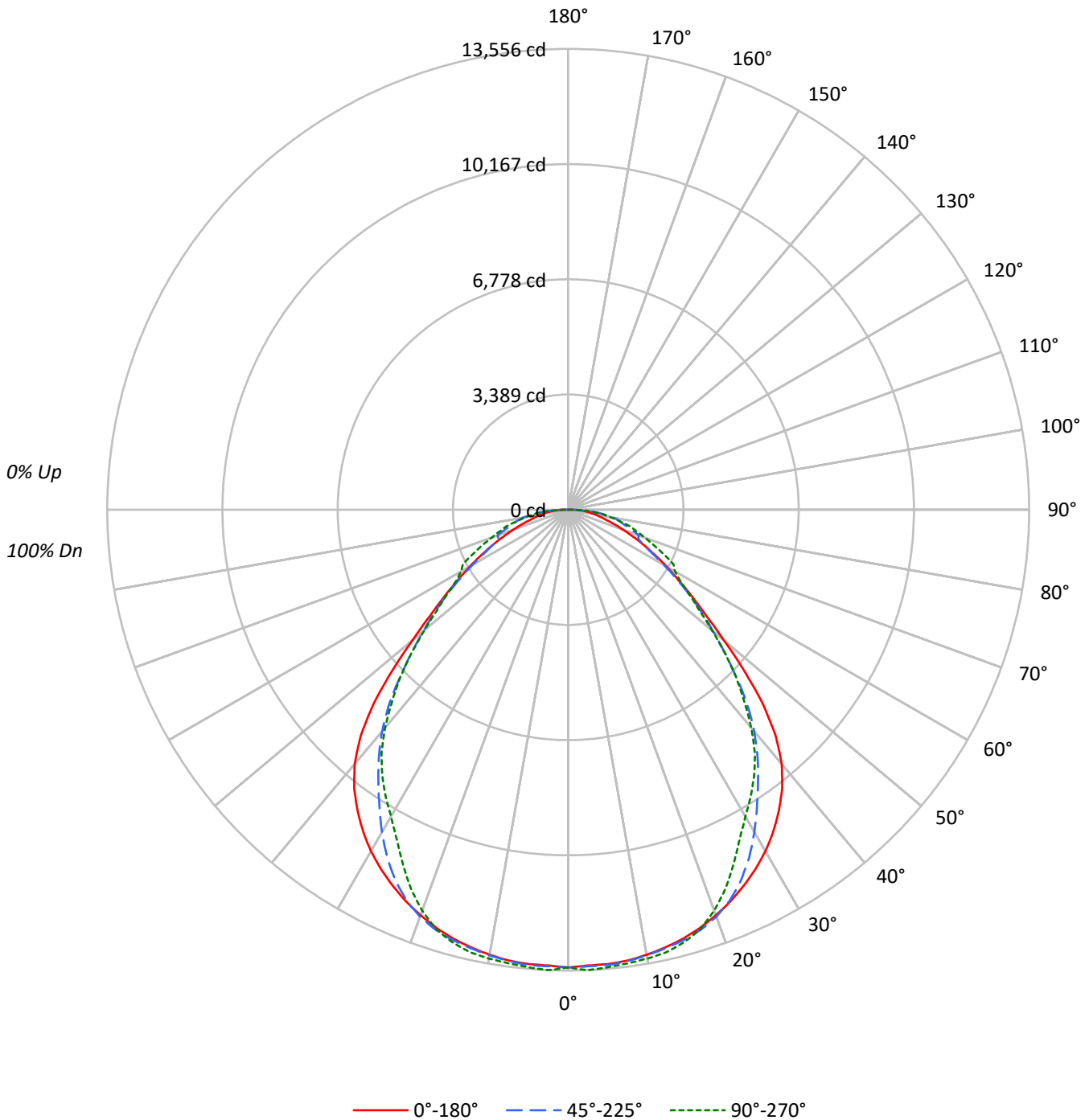
Lumens per Lamp: N/A  
Luminaire Lumens: 31170.0 lumens  
Efficiency: N/A  
Efficacy: 147.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 211.3  
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°	18119	18119	18119
5°	18118	18157	18246
10°	18163	18186	18319
15°	18191	18259	18348
20°	18173	18240	17969
25°	18127	17855	17078
30°	18020	17013	16184
35°	17748	15990	15657
40°	17155	14951	14704
45°	15419	13350	13301
50°	12506	11628	11548
55°	10384	10191	10188
60°	8991	8728	9758
65°	7792	7743	9836
70°	6719	8687	9376
75°	6025	8903	9774
80°	6262	10480	9807
85°	7109	12077	11206



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1282.2	4.1
10°-20°	3703.0	11.9
20°-30°	5499.8	17.6
30°-40°	6243.8	20.0
40°-50°	5581.7	17.9
50°-60°	3859.2	12.4
60°-70°	2546.5	8.2
70°-80°	1718.0	5.5
80°-90°	735.8	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°	10485.0	33.6
0°-40°	16728.8	53.7
0°-60°	26169.7	84.0
0°-90°	31170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31170.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13466	13466	13466	13466	13466	
5°	13415	13497	13444	13498	13509	###
15°	13059	13122	13108	13181	13172	3686
25°	12210	12326	12027	11668	11504	5626
35°	10806	10578	9735	9593	9532	6738
45°	8103	7417	7016	7069	6990	6162
55°	4427	4041	4344	4283	4343	4021
65°	2448	2173	2432	2844	3090	2442
75°	1159	1458	1712	1830	1880	1266
85°	460	640	782	787	726	480
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13466.4	13466.4	13466.4	13466.4	13466.4
2.5°	13420.7	13504.5	13442.0	13500.0	13556.4
5°	13414.6	13496.9	13443.5	13498.4	13509.1
7.5°	13376.4	13452.7	13390.2	13443.5	13455.7
10°	13294.1	13384.1	13310.9	13393.2	13408.5
12.5°	13187.3	13278.8	13214.8	13327.6	13333.7
15°	13059.3	13121.8	13108.1	13181.2	13172.1
17.5°	12897.6	12969.3	12958.6	12976.9	12934.2
20°	12691.8	12772.6	12739.0	12655.2	12549.9
22.5°	12470.6	12568.2	12435.6	12223.6	12075.7
25°	12209.9	12325.8	12026.9	11668.5	11503.9
27.5°	11921.7	12025.4	11528.3	11089.1	10918.3
30°	11598.4	11642.6	10950.3	10532.5	10416.6
32.5°	11224.8	11160.8	10332.7	10056.7	9989.6
35°	10805.5	10578.2	9735.0	9593.2	9532.2
37.5°	10332.7	9916.4	9144.8	9079.3	9015.2
40°	9767.0	9152.5	8512.0	8469.3	8371.7
42.5°	9036.6	8321.4	7809.0	7758.7	7671.8
45°	8103.3	7417.1	7016.1	7069.4	6990.1
47.5°	7029.8	6509.8	6255.1	6401.5	6255.1
50°	5974.6	5625.4	5555.2	5687.9	5517.1
52.5°	5109.9	4795.8	4940.7	4963.6	4861.4
55°	4426.8	4041.0	4344.4	4283.4	4342.9
57.5°	3832.1	3400.5	3774.1	3704.0	3908.3
60°	3341.1	2856.1	3243.5	3228.2	3626.2
62.5°	2859.2	2471.9	2782.9	3007.1	3496.6
65°	2447.5	2173.0	2432.2	2843.9	3089.5
67.5°	2052.5	1948.8	2224.8	2453.6	2721.9
70°	1707.9	1761.3	2208.1	2165.4	2383.4
72.5°	1418.2	1599.6	1948.8	1956.4	2110.5
75°	1158.9	1457.8	1712.5	1829.9	1880.2
77.5°	963.7	1322.1	1546.2	1587.4	1538.6
80°	808.2	1165.0	1352.6	1334.3	1265.7
82.5°	652.7	882.9	1065.9	1082.7	1001.9
85°	460.5	640.5	782.3	786.8	725.9
87.5°	247.0	394.9	474.2	488.0	451.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)