

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-LD5-36SE-W-AWG-UNV-L835-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 (P23764)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-36SE-W-AWG-UNV-L835-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

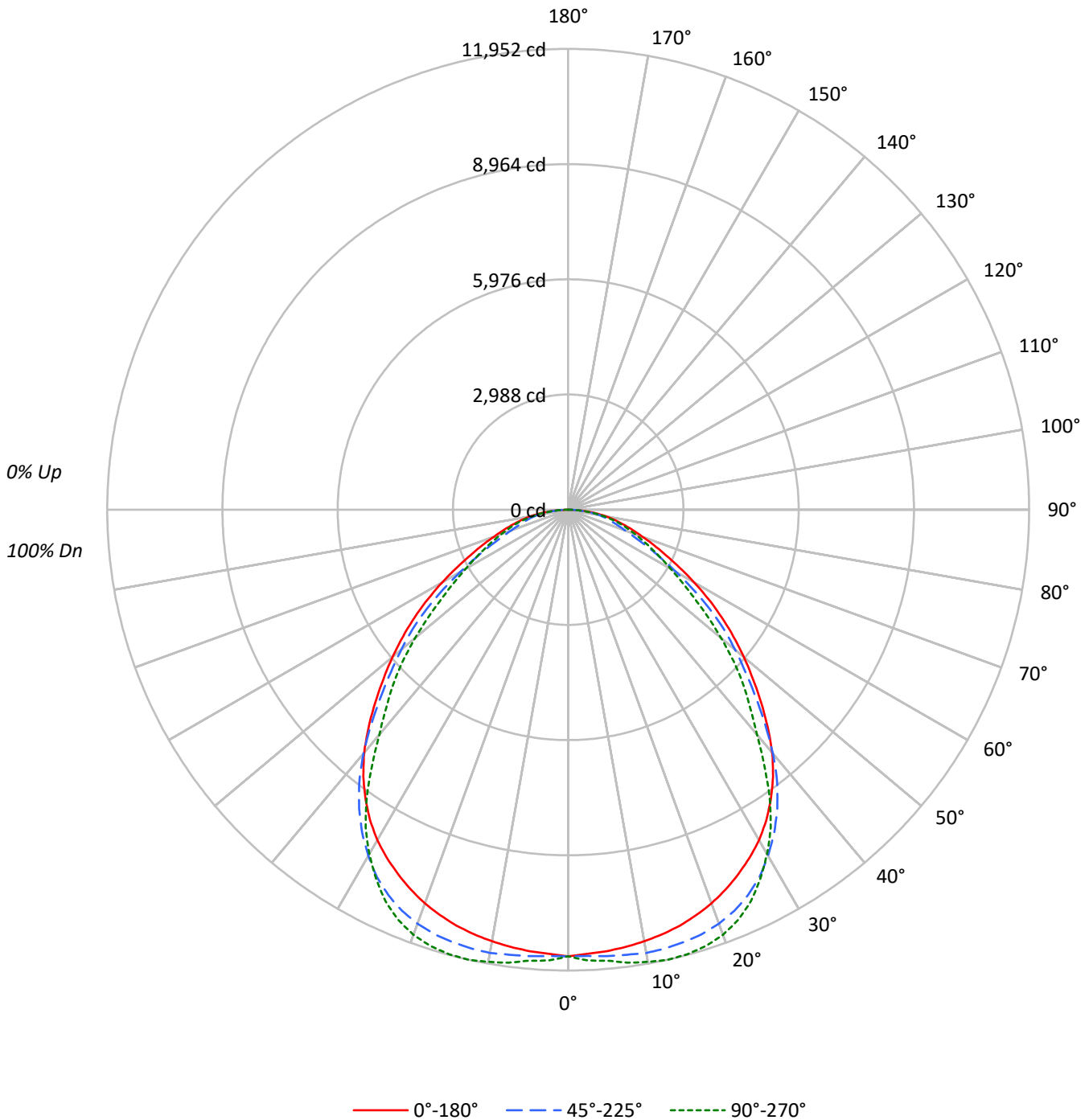
Lumens per Lamp: N/A  
Luminaire Lumens: 28713.0 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 232  
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	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63					63			
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42					42			
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38					38			
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

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

	0°	45°	90°
0°	15584	15584	15584
5°	15524	15698	15857
10°	15528	15950	16271
15°	15558	16171	16626
20°	15555	16356	16796
25°	15487	16377	16643
30°	15373	16105	16020
35°	15047	15522	14957
40°	14458	14500	13371
45°	13457	13072	12224
50°	12439	11821	10832
55°	11387	10476	9347
60°	10154	8695	8254
65°	8905	7156	7584
70°	8041	6164	7222
75°	7685	6042	7201
80°	7747	6396	7026
85°	6862	5859	6133



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1112.6	3.9
10°-20°	3278.9	11.4
20°-30°	5029.3	17.5
30°-40°	5784.5	20.1
40°-50°	5275.9	18.4
50°-60°	3954.3	13.8
60°-70°	2432.4	8.5
70°-80°	1393.9	4.9
80°-90°	451.3	1.6
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°	9420.8	32.8
0°-40°	15205.3	53.0
0°-60°	24435.5	85.1
0°-90°	28713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28713.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11583	11583	11583	11583	11583	
5°	11494	11611	11622	11718	11741	###
15°	11169	11417	11609	11857	11936	3153
25°	10432	10732	11032	11202	11210	4807
35°	9161	9339	9450	9295	9106	5713
45°	7072	7226	6870	6516	6424	5458
55°	4854	4674	4466	4072	3984	4337
65°	2797	2502	2248	2317	2382	2813
75°	1478	1325	1162	1331	1385	1581
85°	444	419	380	400	397	496
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11582.6	11582.6	11582.6	11582.6	11582.6
2.5°	11527.9	11610.6	11584.1	11652.0	11702.2
5°	11494.0	11610.6	11622.5	11718.5	11740.6
7.5°	11436.4	11588.5	11641.7	11811.5	11849.9
10°	11365.5	11548.6	11674.2	11857.3	11909.0
12.5°	11279.8	11492.5	11652.0	11877.9	11951.8
15°	11169.1	11417.2	11609.2	11857.3	11935.5
17.5°	11028.8	11316.8	11541.2	11784.9	11866.1
20°	10863.4	11167.6	11423.1	11672.7	11730.3
22.5°	10664.0	10969.7	11260.6	11485.1	11516.1
25°	10432.2	10731.9	11031.7	11201.6	11210.4
27.5°	10179.6	10458.7	10739.3	10830.9	10791.0
30°	9894.6	10144.2	10365.7	10384.9	10311.1
32.5°	9556.4	9780.9	9938.9	9897.6	9773.5
35°	9160.6	9339.3	9450.1	9295.0	9106.0
37.5°	8726.4	8860.8	8897.8	8561.0	8345.4
40°	8231.7	8346.9	8255.3	7787.2	7612.9
42.5°	7661.7	7794.6	7559.8	7097.5	6991.2
45°	7072.4	7226.0	6870.1	6515.7	6424.1
47.5°	6495.0	6635.3	6232.1	5947.1	5811.2
50°	5942.7	6003.2	5647.3	5325.4	5174.7
52.5°	5399.2	5338.7	5086.1	4685.9	4553.0
55°	4854.3	4674.1	4465.9	4071.6	3984.4
57.5°	4307.8	4056.8	3829.4	3526.6	3492.6
60°	3773.2	3464.6	3231.3	3051.1	3067.3
62.5°	3263.7	2949.2	2699.6	2642.0	2704.0
65°	2797.1	2501.7	2247.7	2317.1	2382.1
67.5°	2408.7	2125.1	1866.7	2043.9	2095.6
70°	2043.9	1815.0	1566.9	1795.8	1835.7
72.5°	1753.0	1558.0	1342.4	1565.4	1599.4
75°	1478.3	1324.7	1162.2	1330.6	1385.2
77.5°	1239.0	1112.0	1001.3	1100.2	1159.3
80°	999.8	892.0	825.5	869.8	906.8
82.5°	732.5	663.1	614.4	633.5	639.5
85°	444.5	419.4	379.5	400.2	397.3
87.5°	146.2	166.9	175.7	158.0	149.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)