

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-AWG-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 (P23764)
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-AWG-UNV-L735-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

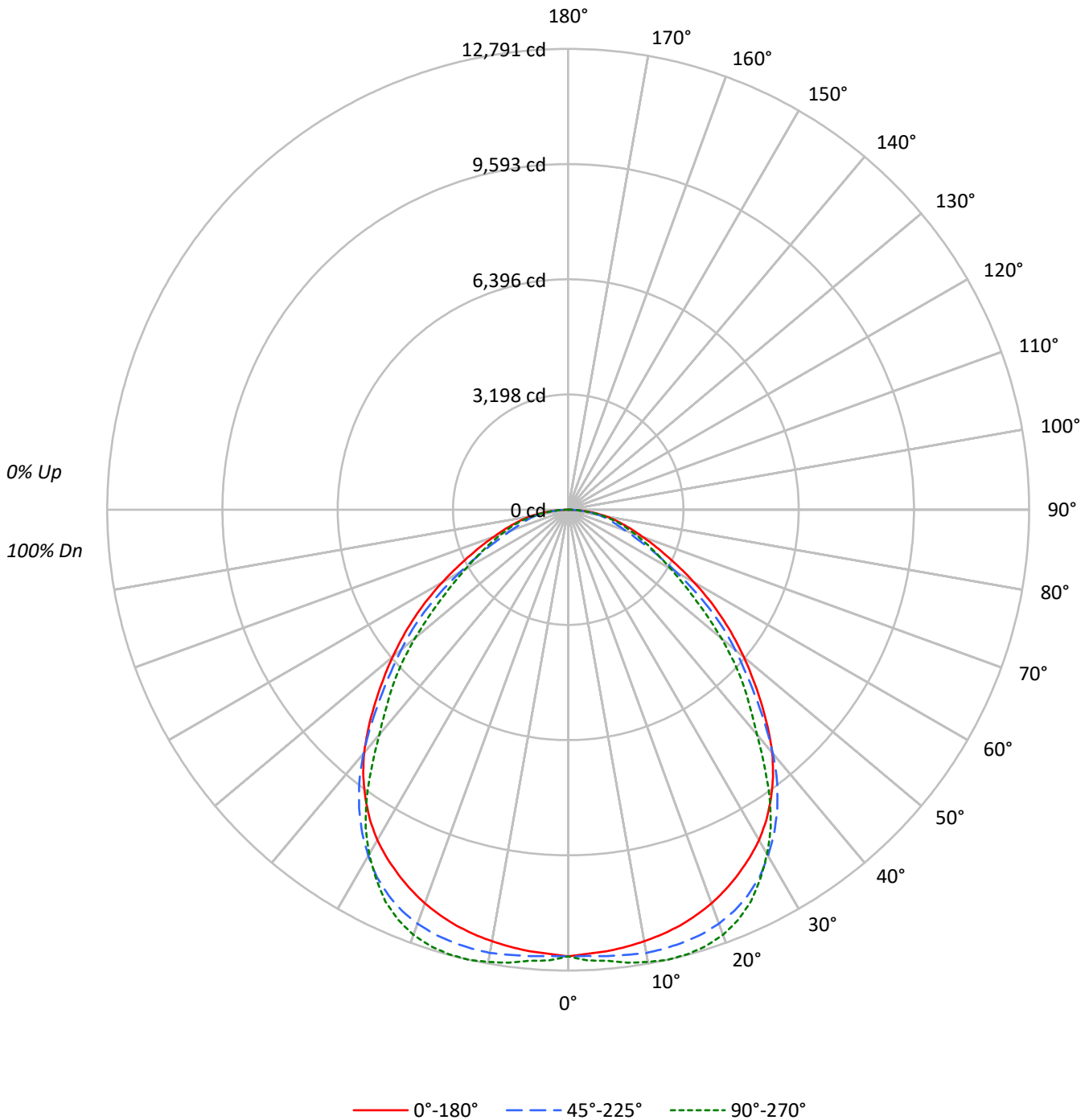
Lumens per Lamp: N/A
Luminaire Lumens: 30730.0 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88					86				
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57					55				
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50					48				
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44					42				
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40					38				
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33					31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16679	16679	16679
5°	16615	16800	16971
10°	16619	17070	17413
15°	16651	17307	17794
20°	16647	17505	17976
25°	16575	17528	17812
30°	16453	17236	17145
35°	16104	16612	16008
40°	15474	15518	14311
45°	14403	13991	13083
50°	13313	12651	11593
55°	12187	11212	10003
60°	10867	9306	8834
65°	9531	7659	8117
70°	8606	6597	7729
75°	8225	6467	7707
80°	8291	6846	7520
85°	7344	6271	6564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1190.8	3.9
10°-20°	3509.2	11.4
20°-30°	5382.6	17.5
30°-40°	6190.8	20.1
40°-50°	5646.5	18.4
50°-60°	4232.1	13.8
60°-70°	2603.2	8.5
70°-80°	1491.8	4.9
80°-90°	483.0	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°	10082.6	32.8
0°-40°	16273.5	53.0
0°-60°	26152.0	85.1
0°-90°	30730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30730.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12396	12396	12396	12396	12396	
5°	12301	12426	12439	12542	12565	###
15°	11954	12219	12425	12690	12774	3374
25°	11165	11486	11807	11988	11998	5145
35°	9804	9995	10114	9948	9746	6114
45°	7569	7734	7353	6973	6875	5841
55°	5195	5002	4780	4358	4264	4642
65°	2994	2677	2406	2480	2549	3010
75°	1582	1418	1244	1424	1483	1692
85°	476	449	406	428	425	531
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12396.2	12396.2	12396.2	12396.2	12396.2
2.5°	12337.7	12426.3	12397.8	12470.5	12524.3
5°	12301.4	12426.3	12438.9	12541.6	12565.3
7.5°	12239.8	12402.6	12459.5	12641.2	12682.3
10°	12163.9	12359.9	12494.2	12690.2	12745.5
12.5°	12072.2	12299.8	12470.5	12712.3	12791.4
15°	11953.7	12219.2	12424.7	12690.2	12774.0
17.5°	11803.5	12111.7	12352.0	12612.8	12699.7
20°	11626.5	11952.1	12225.5	12492.6	12554.3
22.5°	11413.1	11740.3	12051.7	12291.9	12325.1
25°	11165.0	11485.8	11806.7	11988.4	11997.9
27.5°	10894.7	11193.4	11493.7	11591.7	11549.1
30°	10589.7	10856.8	11093.9	11114.4	11035.4
32.5°	10227.7	10468.0	10637.1	10592.8	10460.1
35°	9804.1	9995.4	10113.9	9948.0	9745.7
37.5°	9339.5	9483.3	9522.8	9162.4	8931.7
40°	8810.0	8933.3	8835.3	8334.2	8147.7
42.5°	8199.9	8342.1	8090.8	7596.1	7482.3
45°	7569.2	7733.6	7352.7	6973.4	6875.4
47.5°	6951.2	7101.4	6669.9	6364.9	6219.5
50°	6360.1	6424.9	6044.0	5699.5	5538.2
52.5°	5778.5	5713.7	5443.4	5015.1	4872.8
55°	5195.3	5002.4	4779.6	4357.6	4264.3
57.5°	4610.5	4341.8	4098.4	3774.3	3738.0
60°	4038.3	3708.0	3458.2	3265.4	3282.8
62.5°	3493.0	3156.4	2889.2	2827.6	2894.0
65°	2993.6	2677.4	2405.6	2479.9	2549.4
67.5°	2577.9	2274.4	1997.8	2187.5	2242.8
70°	2187.5	1942.5	1677.0	1921.9	1964.6
72.5°	1876.1	1667.5	1436.7	1675.4	1711.7
75°	1582.1	1417.8	1243.9	1424.1	1482.6
77.5°	1326.1	1190.2	1071.6	1177.5	1240.7
80°	1070.0	954.7	883.5	930.9	970.5
82.5°	784.0	709.7	657.5	678.1	684.4
85°	475.7	448.9	406.2	428.3	425.2
87.5°	156.5	178.6	188.1	169.1	159.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)