

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-N-CLWG-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-N-CLWG-UNV-L835-ED3-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

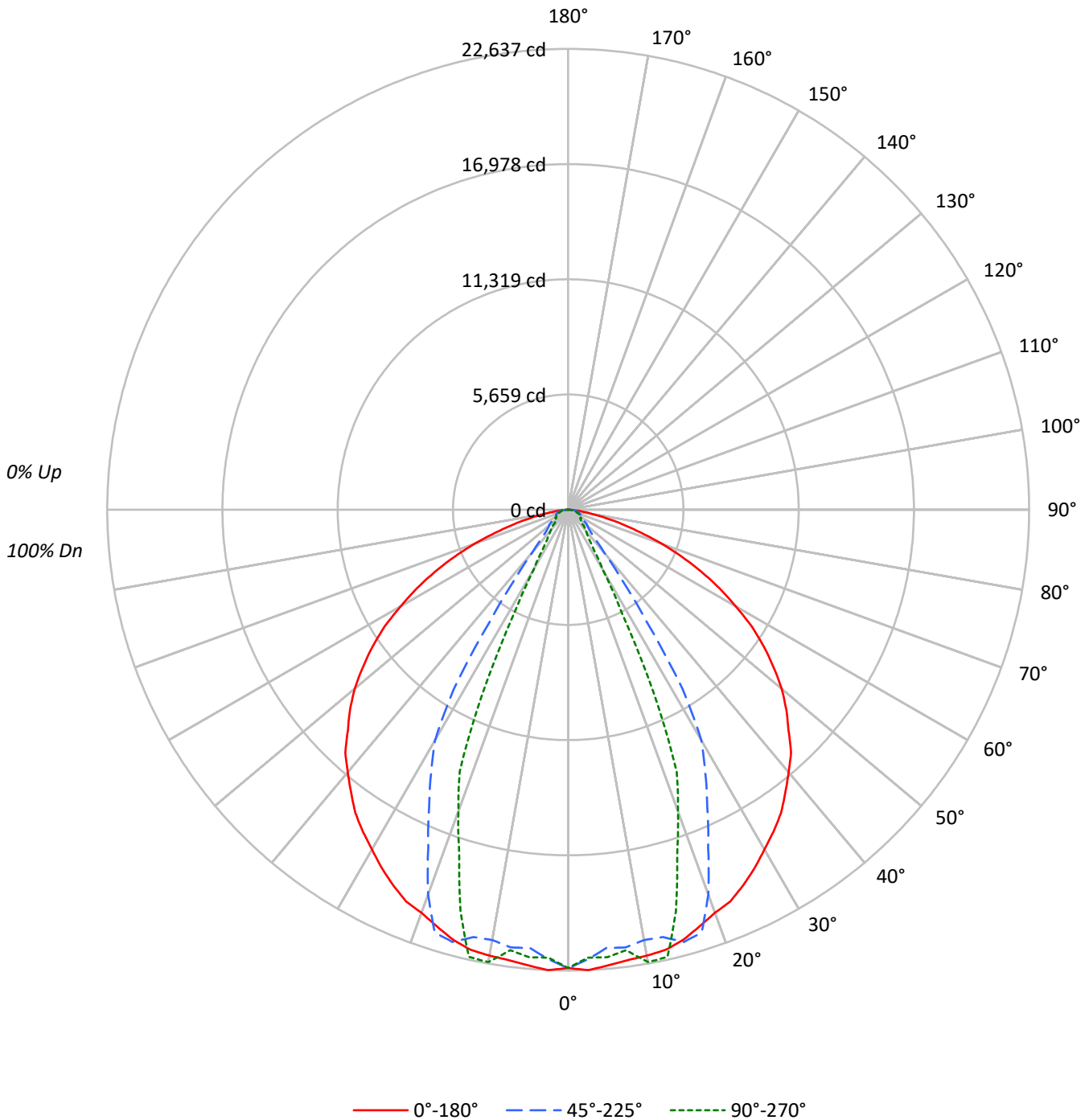
Lumens per Lamp: N/A
Luminaire Lumens: 30267.0 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 211.3
Input Voltage (V): NR
Input Current (A_{in}): 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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	30292	30292	30292
5°	30343	29187	29802
10°	30387	29327	30832
15°	30454	30613	28453
20°	30166	28793	22584
25°	30210	24004	14752
30°	29939	20335	5299
35°	29907	11016	2981
40°	29569	4802	2335
45°	29111	2968	1831
50°	28658	2585	1728
55°	27531	2242	1691
60°	25544	2009	1817
65°	22961	2270	1985
70°	19256	2441	2047
75°	14395	2784	2217
80°	9041	3233	2528
85°	6021	4052	3700



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2086.8	6.9
10°-20°	5892.5	19.5
20°-30°	7215.5	23.8
30°-40°	5666.4	18.7
40°-50°	4202.0	13.9
50°-60°	2558.1	8.5
60°-70°	1532.3	5.1
70°-80°	840.7	2.8
80°-90°	272.7	0.9
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°	15194.8	50.2
0°-40°	20861.2	68.9
0°-60°	27621.3	91.3
0°-90°	30267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30267.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22514	22514	22514	22514	22514	
5°	22466	21854	21610	21848	22065	###
15°	21863	21264	21977	21089	20426	6156
25°	20349	20413	16169	12682	9937	9367
35°	18208	16563	6707	2244	1815	11361
45°	15299	10986	1560	1182	962	11831
55°	11736	3027	956	809	721	10444
65°	7212	892	713	671	624	7125
75°	2769	563	536	466	426	2998
85°	390	306	262	241	240	476
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22514.1	22514.1	22514.1	22514.1	22514.1
2.5°	22637.0	22332.0	22098.4	21967.9	22021.0
5°	22465.6	21854.1	21609.8	21848.0	22065.0
7.5°	22316.9	21408.0	21684.1	21705.4	21819.2
10°	22241.0	21365.5	21465.6	21937.5	22567.2
12.5°	22140.8	21464.1	21499.0	22142.4	22497.4
15°	21863.2	21263.8	21977.0	21089.3	20426.3
17.5°	21458.1	20796.5	21776.7	18682.9	17781.6
20°	21068.1	20288.2	20109.1	16642.1	15772.6
22.5°	20816.2	20210.8	17963.6	14828.8	13930.6
25°	20348.9	20412.6	16168.6	12681.8	9937.0
27.5°	19834.5	19937.7	14581.5	8457.6	5693.0
30°	19270.1	19388.4	13088.5	4998.1	3411.0
32.5°	18758.7	18091.1	10452.9	3118.1	2371.6
35°	18207.9	16563.2	6706.6	2244.1	1814.7
37.5°	17514.5	14957.8	4245.5	1775.3	1523.4
40°	16834.8	13516.4	2734.2	1515.8	1329.2
42.5°	16199.0	12328.3	1989.2	1324.6	1200.2
45°	15299.2	10985.5	1559.8	1182.0	962.0
47.5°	14520.8	9410.5	1364.1	999.9	830.0
50°	13690.8	7195.2	1235.1	889.2	825.4
52.5°	12706.1	4706.8	1141.0	851.2	770.8
55°	11736.5	3027.1	955.9	808.7	720.7
57.5°	10689.6	1919.4	843.6	784.5	752.6
60°	9492.4	1294.3	746.5	743.5	675.2
62.5°	8384.8	1063.6	720.7	713.1	638.8
65°	7211.9	892.2	713.1	670.7	623.6
67.5°	6040.5	764.7	644.9	613.0	572.0
70°	4894.9	699.5	620.6	606.9	520.4
72.5°	3717.5	576.6	550.8	514.4	432.4
75°	2769.1	562.9	535.6	465.8	426.4
77.5°	1873.9	518.9	487.1	417.3	385.4
80°	1166.8	476.4	417.3	365.7	326.2
82.5°	693.4	397.5	342.9	301.9	276.2
85°	390.0	306.5	262.5	241.3	239.7
87.5°	83.5	110.8	88.0	83.5	59.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)