

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-N-CL-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 (P23768)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-N-CL-UNV-L835-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

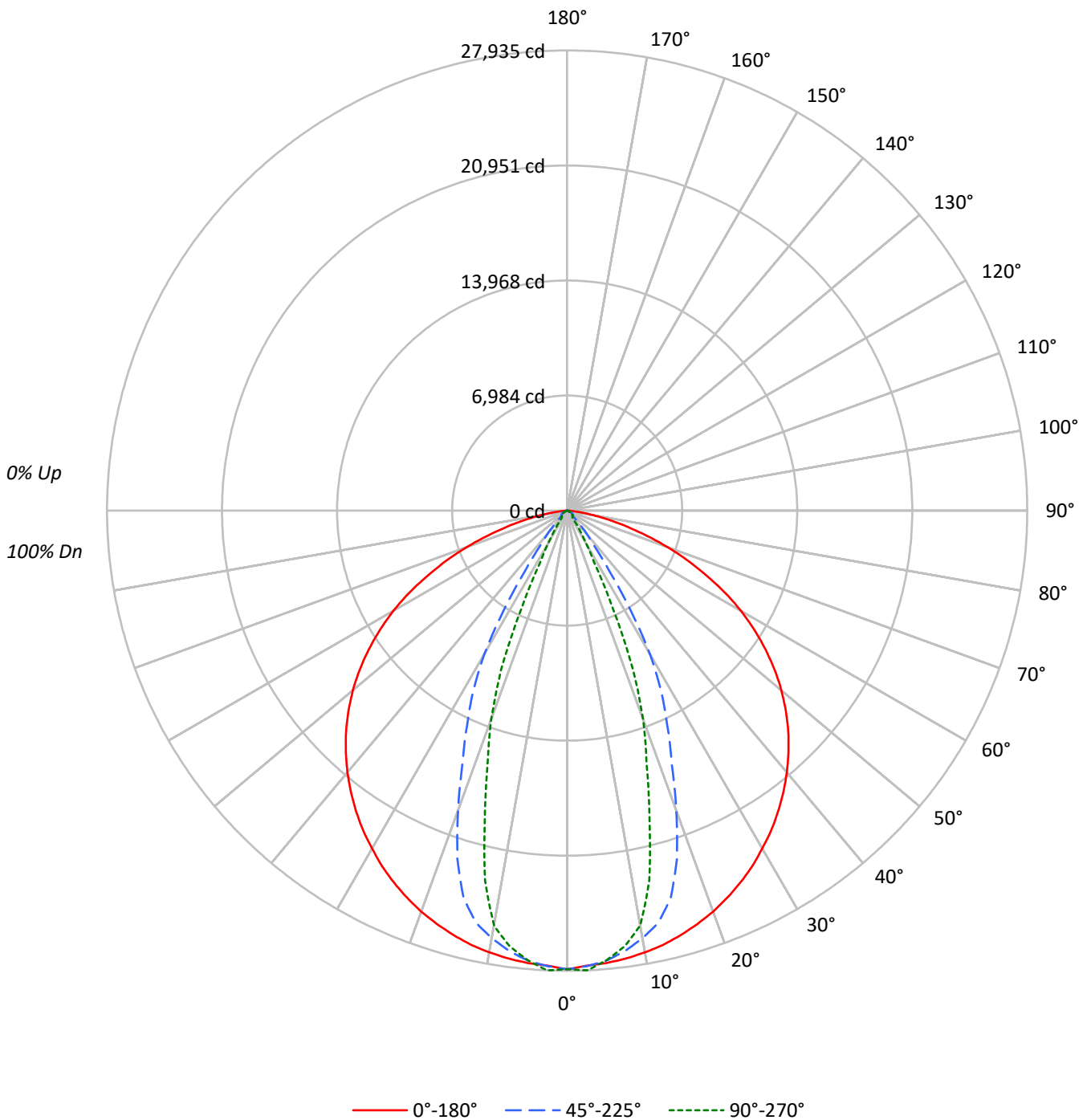
Lumens per Lamp: N/A
Luminaire Lumens: 29777.0 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92					90				
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83					81				
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75					73				
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68					66				
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62					60				
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57					55				
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53					51				
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49					47				
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46					44				
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43					41				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37462	37462	37462
5°	37231	37037	37010
10°	37206	36013	34950
15°	37164	33865	26873
20°	37091	27713	19276
25°	36975	21352	9795
30°	36800	15583	3564
35°	36669	7156	1240
40°	36443	3248	856
45°	36119	1212	867
50°	35543	880	913
55°	34491	926	695
60°	32776	989	614
65°	29724	753	499
70°	25485	544	459
75°	19480	481	437
80°	12187	453	475
85°	3849	528	638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2592.1	8.7
10°-20°	6529.7	21.9
20°-30°	7111.1	23.9
30°-40°	5319.5	17.9
40°-50°	3824.8	12.8
50°-60°	2349.0	7.9
60°-70°	1351.7	4.5
70°-80°	603.3	2.0
80°-90°	95.7	0.3
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°	16233.0	54.5
0°-40°	21552.5	72.4
0°-60°	27726.3	93.1
0°-90°	29777.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29777.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27842	27842	27842	27842	27842	
5°	27566	27696	27422	27448	27402	###
15°	26680	26168	24312	20880	19292	7531
25°	24906	23119	14383	9228	6598	11481
35°	22324	16011	4357	1281	755	13964
45°	18982	8996	637	472	456	14623
55°	14703	1869	395	382	296	13109
65°	9336	205	236	197	157	9242
75°	3747	124	93	96	84	4066
85°	249	24	34	44	41	497
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	27842.3	27842.3	27842.3	27842.3	27842.3
2.5°	27648.5	27829.5	27677.0	27813.8	27934.9
5°	27565.9	27695.5	27422.0	27447.6	27402.0
7.5°	27423.4	27454.8	26960.4	26769.5	26676.8
10°	27232.5	27148.4	26359.1	25904.6	25581.2
12.5°	26991.7	26713.9	25611.1	23988.4	23021.0
15°	26679.7	26168.2	24311.8	20879.6	19292.4
17.5°	26307.8	25598.3	22160.4	17401.8	16028.3
20°	25904.6	24968.6	19355.1	14795.9	13462.4
22.5°	25428.8	24163.6	16588.3	12305.5	10474.7
25°	24905.9	23119.3	14382.8	9228.0	6598.0
27.5°	24341.7	21741.5	12341.1	5659.1	3567.6
30°	23686.3	20064.6	10030.2	3175.7	2293.8
32.5°	23046.6	18109.9	7165.0	2115.7	1466.1
35°	22324.3	16011.2	4356.9	1280.8	755.1
37.5°	21559.2	14103.5	2727.0	696.7	521.5
40°	20748.5	12294.1	1849.3	494.4	487.3
42.5°	19882.3	10657.1	1158.3	470.2	485.8
45°	18981.8	8995.8	636.9	471.6	455.9
47.5°	18004.4	7192.1	444.5	445.9	444.5
50°	16980.1	5159.0	420.3	440.2	436.0
52.5°	15875.9	3202.8	421.7	430.3	386.1
55°	14703.3	1869.3	394.7	381.8	296.3
57.5°	13470.9	1165.4	386.1	314.9	266.4
60°	12180.1	615.5	367.6	283.5	228.0
62.5°	10805.2	303.5	294.9	242.2	186.6
65°	9336.3	205.2	236.5	196.6	156.7
67.5°	7917.3	185.2	178.1	161.0	136.8
70°	6478.3	169.5	138.2	141.0	116.8
72.5°	5066.4	153.9	111.1	121.1	98.3
75°	3747.1	124.0	92.6	95.5	84.1
77.5°	2607.3	96.9	72.7	81.2	78.4
80°	1572.9	61.3	58.4	67.0	61.3
82.5°	762.2	39.9	45.6	52.7	48.4
85°	249.3	24.2	34.2	44.2	41.3
87.5°	31.3	14.2	28.5	38.5	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)