

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-L850-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-L850-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

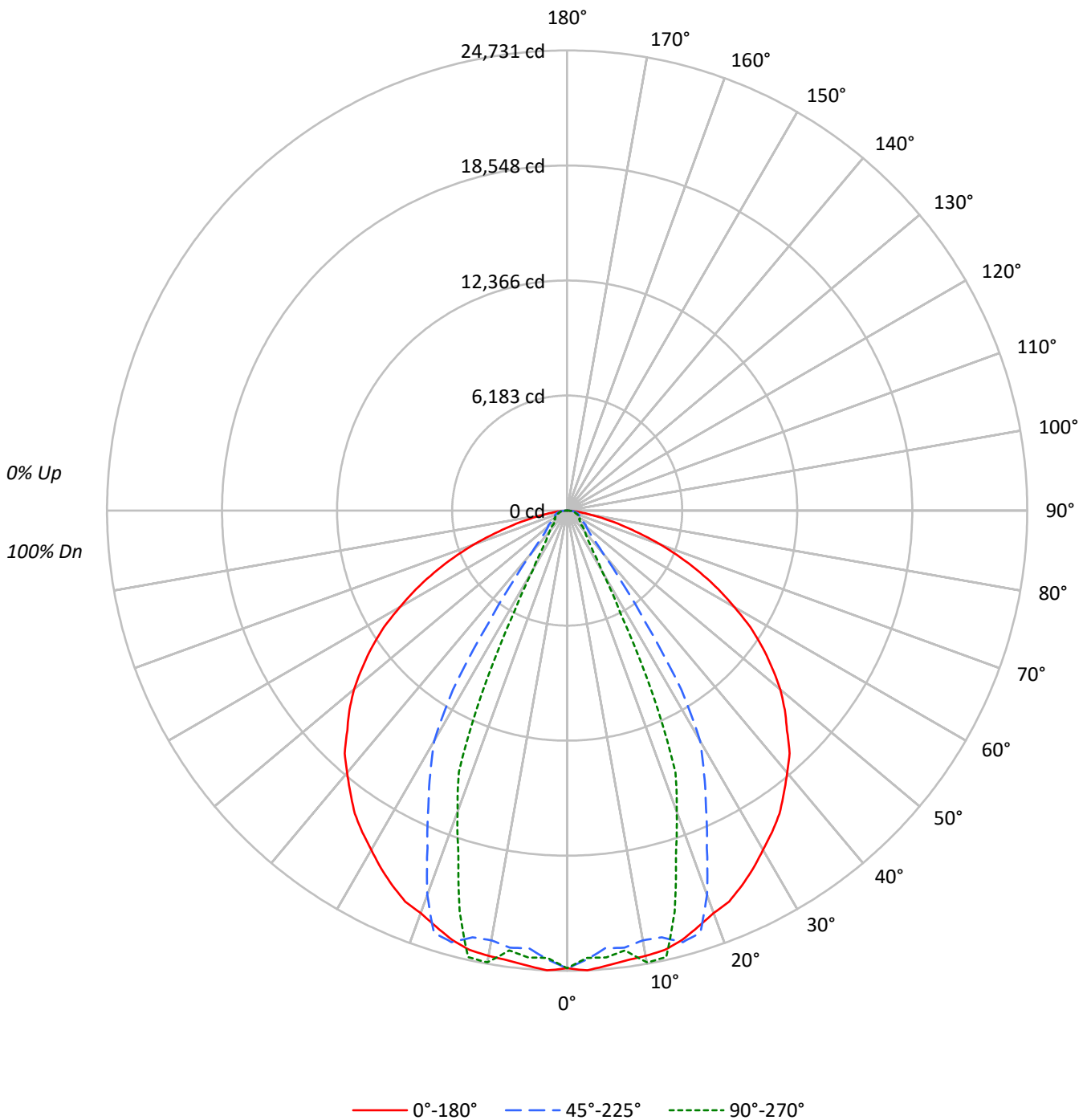
Lumens per Lamp: N/A
Luminaire Lumens: 33067.0 lumens
Efficiency: N/A
Efficacy: 156.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	33095	33095	33095
5°	33150	31887	32559
10°	33198	32040	33685
15°	33272	33445	31085
20°	32957	31457	24673
25°	33004	26224	16117
30°	32708	22216	5790
35°	32674	12035	3256
40°	32304	5247	2550
45°	31805	3243	2000
50°	31309	2825	1888
55°	30078	2450	1847
60°	27907	2195	1985
65°	25084	2480	2169
70°	21038	2667	2237
75°	15727	3042	2421
80°	9878	3532	2762
85°	6576	4428	4043



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2279.8	6.9
10°-20°	6437.6	19.5
20°-30°	7883.1	23.8
30°-40°	6190.6	18.7
40°-50°	4590.7	13.9
50°-60°	2794.7	8.5
60°-70°	1674.1	5.1
70°-80°	918.5	2.8
80°-90°	297.9	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°	16600.5	50.2
0°-40°	22791.1	68.9
0°-60°	30176.5	91.3
0°-90°	33067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24597	24597	24597	24597	24597	
5°	24544	23876	23609	23869	24106	###
15°	23886	23231	24010	23040	22316	6725
25°	22231	22301	17664	13855	10856	10234
35°	19892	18095	7327	2452	1983	12412
45°	16714	12002	1704	1291	1051	12925
55°	12822	3307	1044	884	787	11411
65°	7879	975	779	733	681	7784
75°	3025	615	585	509	466	3276
85°	426	335	287	264	262	520
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24596.9	24596.9	24596.9	24596.9	24596.9
2.5°	24731.2	24398.0	24142.7	24000.1	24058.1
5°	24543.8	23875.8	23608.9	23869.2	24106.2
7.5°	24381.4	23388.4	23690.1	23713.3	23837.7
10°	24298.5	23342.0	23451.4	23967.0	24654.9
12.5°	24189.1	23449.8	23487.9	24190.8	24578.7
15°	23885.7	23230.9	24010.1	23040.3	22315.9
17.5°	23443.1	22720.4	23791.3	20411.2	19426.5
20°	23017.1	22165.1	21969.4	18181.6	17231.7
22.5°	22741.9	22080.5	19625.5	16200.7	15219.3
25°	22231.4	22301.0	17664.4	13855.0	10856.3
27.5°	21669.4	21782.1	15930.5	9240.0	6219.7
30°	21052.7	21182.0	14299.3	5460.5	3726.5
32.5°	20494.1	19764.7	11419.9	3406.6	2591.0
35°	19892.4	18095.4	7327.0	2451.7	1982.6
37.5°	19134.8	16341.6	4638.2	1939.5	1664.3
40°	18392.1	14766.8	2987.2	1656.0	1452.1
42.5°	17697.6	13468.8	2173.2	1447.2	1311.2
45°	16714.5	12001.7	1704.1	1291.3	1051.0
47.5°	15864.1	10281.0	1490.3	1092.4	906.8
50°	14957.4	7860.8	1349.4	971.4	901.8
52.5°	13881.5	5142.2	1246.6	930.0	842.1
55°	12822.3	3307.1	1044.3	883.6	787.4
57.5°	11678.5	2097.0	921.7	857.0	822.2
60°	10370.5	1414.0	815.6	812.3	737.7
62.5°	9160.4	1162.0	787.4	779.1	697.9
65°	7879.0	974.7	779.1	732.7	681.3
67.5°	6599.3	835.5	704.5	669.7	625.0
70°	5347.7	764.2	678.0	663.1	568.6
72.5°	4061.4	629.9	601.7	562.0	472.4
75°	3025.3	615.0	585.2	508.9	465.8
77.5°	2047.3	566.9	532.1	455.9	421.1
80°	1274.8	520.5	455.9	399.5	356.4
82.5°	757.6	434.3	374.6	329.9	301.7
85°	426.0	334.9	286.8	263.6	261.9
87.5°	91.2	121.0	96.1	91.2	64.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)