

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-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 (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-L735-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

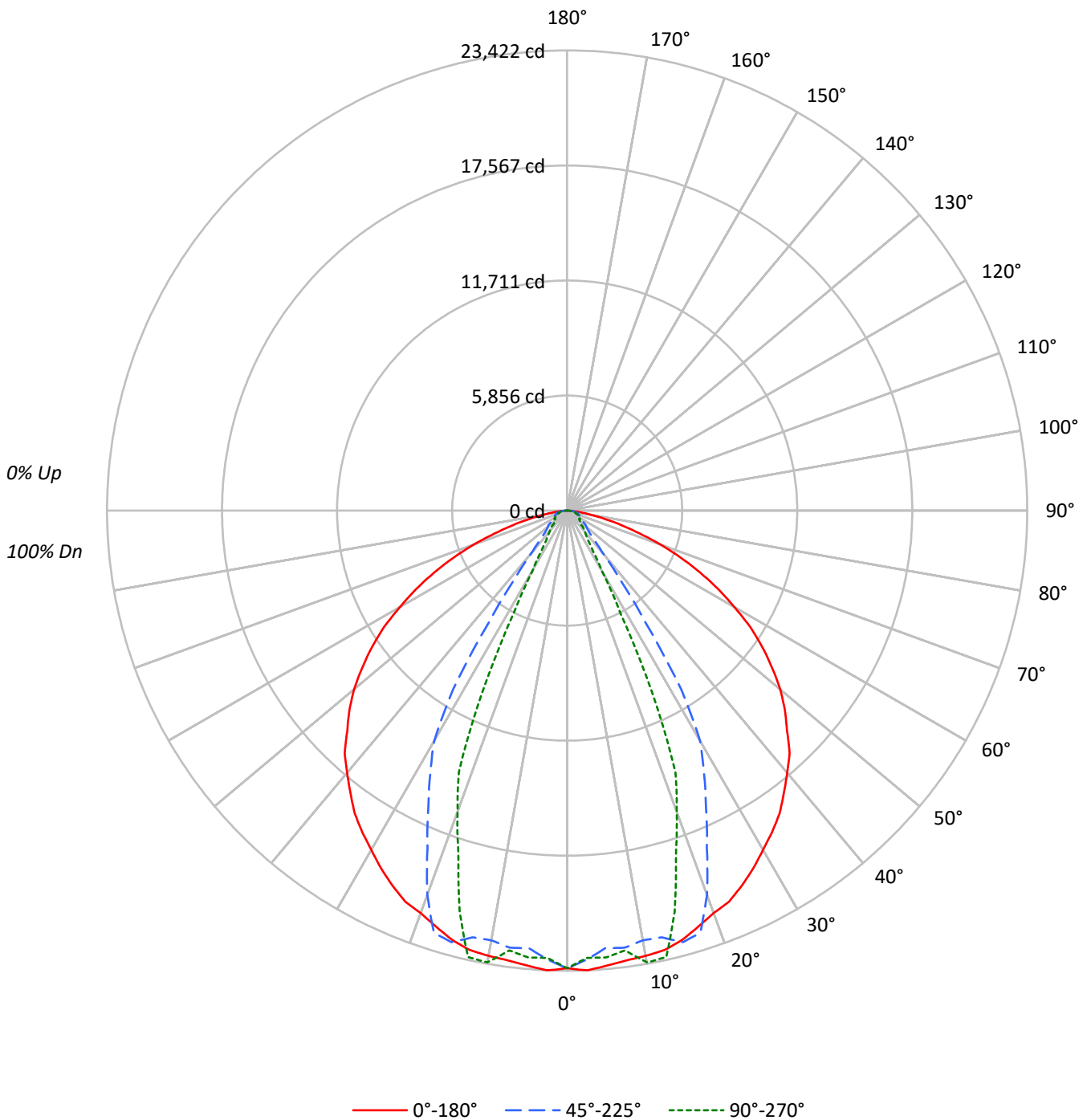
Lumens per Lamp: N/A
Luminaire Lumens: 31317.0 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 211.3
Input Voltage (V): NR
Input Current (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	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°	31343	31343	31343
5°	31395	30199	30835
10°	31441	30345	31902
15°	31511	31675	29440
20°	31213	29792	23367
25°	31258	24836	15264
30°	30977	21040	5483
35°	30945	11398	3084
40°	30595	4969	2416
45°	30121	3071	1894
50°	29652	2675	1788
55°	28487	2320	1749
60°	26430	2079	1880
65°	23757	2349	2054
70°	19924	2526	2118
75°	14895	2881	2294
80°	9355	3345	2615
85°	6229	4193	3830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2159.1	6.9
10°-20°	6096.9	19.5
20°-30°	7465.9	23.8
30°-40°	5863.0	18.7
40°-50°	4347.8	13.9
50°-60°	2646.8	8.5
60°-70°	1585.5	5.1
70°-80°	869.9	2.8
80°-90°	282.1	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°	15721.9	50.2
0°-40°	21584.9	68.9
0°-60°	28579.5	91.3
0°-90°	31317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23295	23295	23295	23295	23295	
5°	23245	22612	22360	22606	22830	###
15°	22622	22002	22739	21821	21135	6369
25°	21055	21121	16730	13122	10282	9692
35°	18840	17138	6939	2322	1878	11755
45°	15830	11367	1614	1223	995	12241
55°	12144	3132	989	837	746	10807
65°	7462	923	738	694	645	7372
75°	2865	582	554	482	441	3102
85°	404	317	272	250	248	492
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23295.2	23295.2	23295.2	23295.2	23295.2
2.5°	23422.3	23106.8	22865.0	22730.0	22784.9
5°	23244.9	22612.2	22359.5	22605.9	22830.4
7.5°	23091.1	22150.6	22436.4	22458.4	22576.1
10°	23012.6	22106.7	22210.3	22698.6	23350.1
12.5°	22908.9	22208.7	22244.8	22910.5	23277.9
15°	22621.6	22001.5	22739.4	21821.0	21134.9
17.5°	22202.5	21518.0	22532.2	19331.0	18398.4
20°	21799.0	20992.0	20806.8	17219.4	16319.8
22.5°	21538.4	20911.9	18586.8	15343.3	14413.9
25°	21054.8	21120.8	16729.6	13121.8	10281.7
27.5°	20522.6	20629.4	15087.4	8751.0	5890.5
30°	19938.6	20061.0	13542.5	5171.5	3529.3
32.5°	19409.5	18718.7	10815.5	3226.3	2453.9
35°	18839.6	17137.7	6939.2	2322.0	1877.7
37.5°	18122.1	15476.7	4392.8	1836.9	1576.2
40°	17418.8	13985.3	2829.1	1568.4	1375.3
42.5°	16761.0	12756.0	2058.2	1370.6	1241.8
45°	15830.0	11366.6	1613.9	1223.0	995.4
47.5°	15024.6	9736.9	1411.4	1034.6	858.8
50°	14165.8	7444.8	1278.0	920.0	854.1
52.5°	13146.9	4870.0	1180.6	880.8	797.5
55°	12143.7	3132.1	989.1	836.8	745.7
57.5°	11060.4	1986.0	872.9	811.7	778.7
60°	9821.7	1339.2	772.4	769.3	698.6
62.5°	8675.6	1100.5	745.7	737.9	661.0
65°	7462.0	923.1	737.9	693.9	645.3
67.5°	6250.0	791.3	667.2	634.3	591.9
70°	5064.7	723.8	642.1	628.0	538.5
72.5°	3846.4	596.6	569.9	532.2	447.4
75°	2865.2	582.5	554.2	482.0	441.2
77.5°	1938.9	536.9	504.0	431.7	398.8
80°	1207.3	493.0	431.7	378.4	337.5
82.5°	717.5	411.3	354.8	312.4	285.7
85°	403.5	317.1	271.6	249.6	248.1
87.5°	86.3	114.6	91.1	86.3	61.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)