

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-A-UNV-L740-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 (P23761)
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-A-UNV-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

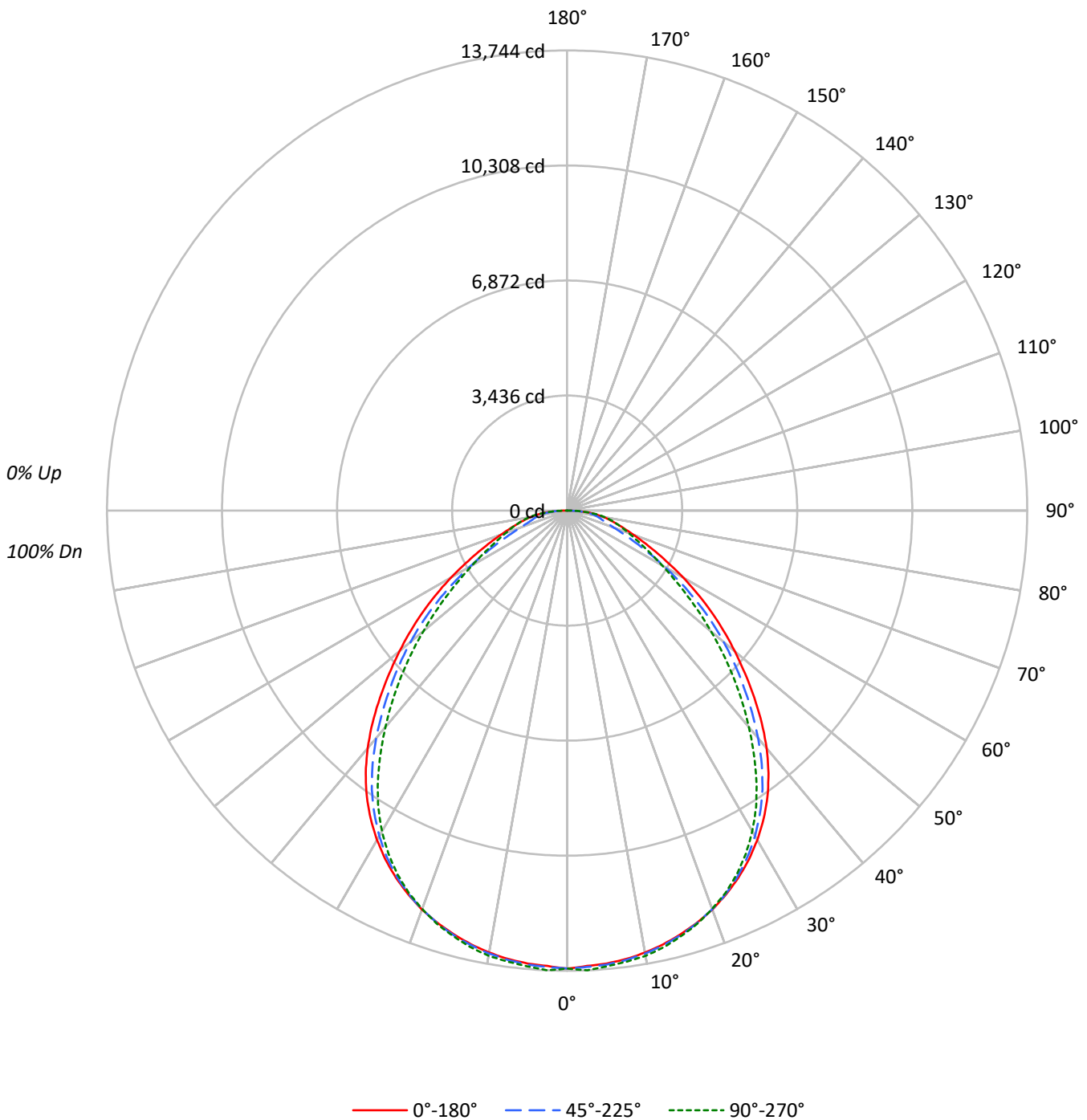
Lumens per Lamp: N/A
Luminaire Lumens: 31420.0 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18403	18403	18403
5°	18338	18380	18455
10°	18312	18354	18447
15°	18251	18287	18330
20°	18155	18142	18129
25°	17958	17897	17796
30°	17648	17435	17181
35°	17135	16704	16190
40°	16283	15584	14836
45°	15043	14203	13343
50°	13674	12790	11737
55°	12295	11073	10146
60°	10759	9049	8804
65°	9277	7116	7946
70°	8271	5807	7658
75°	7923	5670	8003
80°	8570	6705	8916
85°	9621	8072	9717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1296.3	4.1
10°-20°	3709.9	11.8
20°-30°	5549.7	17.7
30°-40°	6331.7	20.2
40°-50°	5763.6	18.3
50°-60°	4232.2	13.5
60°-70°	2498.9	8.0
70°-80°	1432.1	4.6
80°-90°	605.5	1.9
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°	10555.9	33.6
0°-40°	16887.7	53.7
0°-60°	26883.5	85.6
0°-90°	31420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31420.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13678	13678	13678	13678	13678	
5°	13577	13662	13608	13662	13664	###
15°	13102	13175	13128	13175	13159	3697
25°	12097	12140	12055	12050	11987	5568
35°	10432	10381	10170	9996	9857	6500
45°	7906	7859	7464	7130	7012	6092
55°	5242	4999	4720	4378	4325	4687
65°	2914	2544	2235	2391	2496	2932
75°	1524	1306	1091	1422	1539	1643
85°	623	575	523	617	629	652
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13677.7	13677.7	13677.7	13677.7	13677.7
2.5°	13614.4	13693.1	13643.7	13697.7	13744.0
5°	13577.4	13662.2	13608.2	13662.2	13663.8
7.5°	13509.5	13588.2	13535.7	13594.4	13588.2
10°	13403.1	13481.8	13433.9	13497.2	13501.8
12.5°	13267.3	13342.9	13293.6	13366.1	13353.7
15°	13102.3	13174.8	13128.5	13174.8	13159.4
17.5°	12907.9	12974.3	12914.1	12965.0	12938.8
20°	12679.6	12735.2	12670.4	12718.2	12661.1
22.5°	12406.6	12456.0	12388.1	12414.3	12355.7
25°	12096.6	12139.7	12054.9	12050.3	11987.0
27.5°	11751.0	11774.2	11666.2	11629.2	11556.7
30°	11359.2	11365.4	11221.9	11152.5	11058.4
32.5°	10919.6	10904.2	10720.6	10617.3	10501.6
35°	10432.2	10381.3	10169.9	9995.6	9856.8
37.5°	9881.5	9801.3	9548.3	9290.7	9158.0
40°	9270.6	9176.5	8872.7	8553.4	8446.9
42.5°	8605.8	8525.6	8167.7	7834.5	7729.6
45°	7905.5	7859.2	7464.3	7129.6	7012.4
47.5°	7205.2	7171.2	6785.6	6444.7	6302.8
50°	6532.6	6458.6	6110.0	5736.7	5607.1
52.5°	5880.1	5729.0	5422.0	5039.5	4943.8
55°	5241.5	4999.4	4720.2	4377.7	4325.3
57.5°	4609.1	4296.0	4024.5	3768.4	3766.9
60°	3998.3	3640.4	3362.7	3228.5	3271.7
62.5°	3426.0	3058.8	2758.1	2767.3	2846.0
65°	2913.8	2543.6	2235.1	2390.9	2495.8
67.5°	2474.2	2121.0	1807.9	2097.8	2198.1
70°	2102.5	1783.2	1476.2	1838.7	1946.7
72.5°	1789.3	1520.9	1244.8	1622.7	1732.3
75°	1524.0	1306.5	1090.6	1422.2	1539.4
77.5°	1308.1	1115.3	978.0	1230.9	1352.8
80°	1106.0	936.3	865.4	1045.8	1150.7
82.5°	876.2	758.9	717.3	849.9	903.9
85°	623.2	575.4	522.9	617.0	629.4
87.5°	342.4	354.8	293.1	354.8	356.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)