

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-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 (P23762)
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-CL-UNV-L835-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

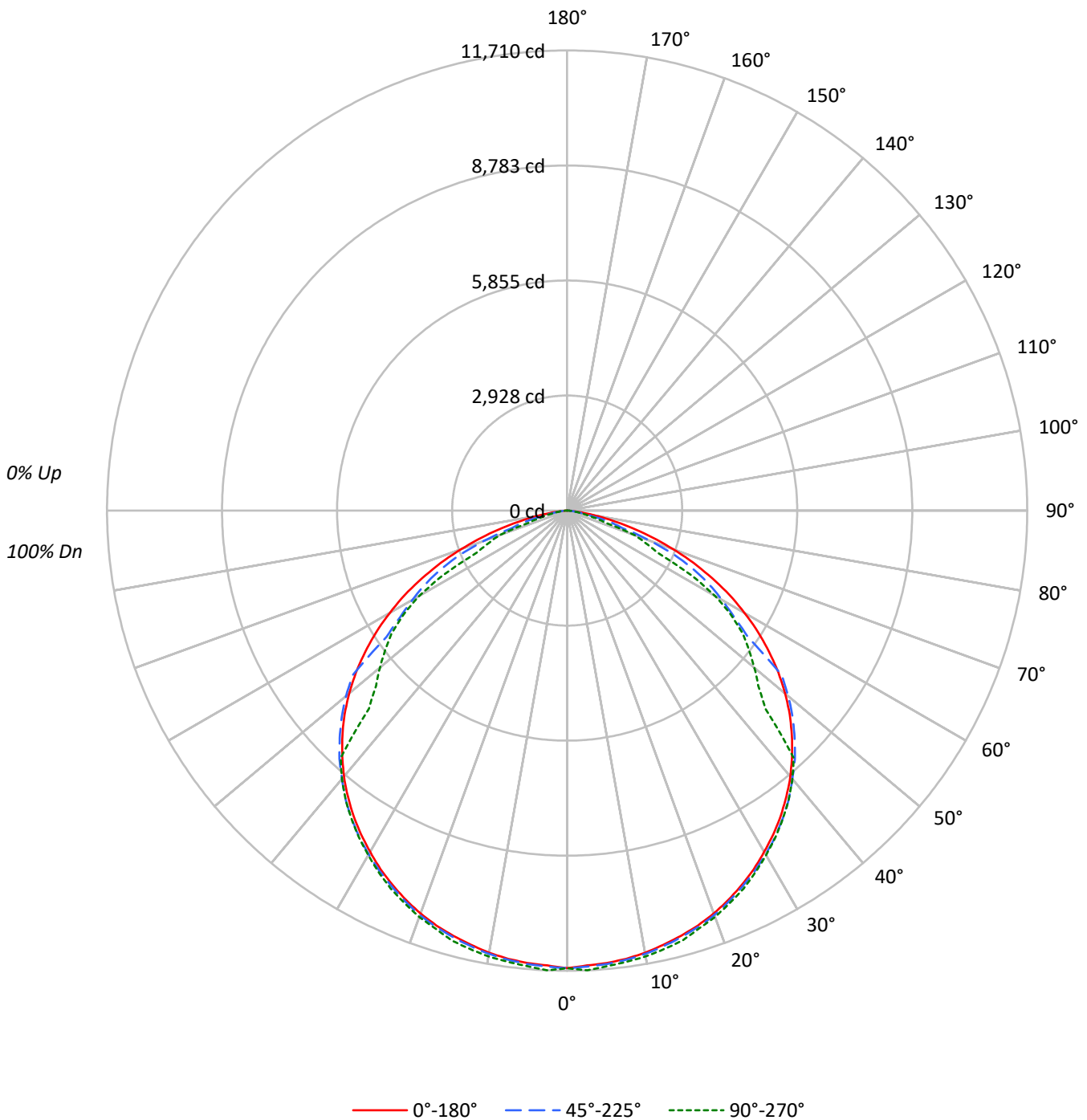
Lumens per Lamp: N/A
Luminaire Lumens: 31475.0 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15665	15665	15665
5°	15608	15642	15719
10°	15606	15651	15742
15°	15605	15653	15779
20°	15625	15684	15757
25°	15607	15666	15761
30°	15578	15692	15727
35°	15570	15712	15724
40°	15522	15659	15659
45°	15388	15574	13570
50°	15151	15379	13020
55°	14721	13165	12789
60°	14030	12237	11684
65°	12975	11359	8092
70°	11298	8839	7211
75°	8924	5932	3876
80°	5745	2834	2417
85°	2364	1729	1903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1104.4	3.5
10°-20°	3183.2	10.1
20°-30°	4880.4	15.5
30°-40°	5981.7	19.0
40°-50°	6149.6	19.5
50°-60°	5248.4	16.7
60°-70°	3469.8	11.0
70°-80°	1285.5	4.1
80°-90°	171.9	0.5
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°	9168.0	29.1
0°-40°	15149.7	48.1
0°-60°	26547.7	84.3
0°-90°	31475.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31475.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11642	11642	11642	11642	11642	
5°	11556	11637	11582	11627	11638	###
15°	11203	11271	11237	11322	11328	3164
25°	10513	10568	10552	10647	10616	4847
35°	9479	9544	9566	9625	9573	5929
45°	8087	8168	8185	8172	7132	6232
55°	6276	6390	5612	5449	5452	5600
65°	4076	4110	3568	2934	2542	4019
75°	1717	1504	1141	767	746	1842
85°	153	109	112	122	123	253
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11642.5	11642.5	11642.5	11642.5	11642.5
2.5°	11585.8	11658.1	11615.6	11669.4	11710.5
5°	11556.0	11636.8	11581.5	11626.9	11638.2
7.5°	11505.0	11580.1	11529.1	11588.6	11580.1
10°	11422.8	11490.8	11455.4	11517.7	11522.0
12.5°	11317.9	11385.9	11353.3	11429.8	11428.4
15°	11203.0	11271.1	11237.1	11322.1	11327.8
17.5°	11068.4	11130.7	11105.2	11183.2	11152.0
20°	10912.4	10966.3	10953.5	11027.3	11004.6
22.5°	10721.1	10776.4	10763.6	10848.6	10814.6
25°	10512.7	10568.0	10552.4	10647.4	10616.2
27.5°	10287.3	10339.7	10338.3	10427.6	10379.4
30°	10026.5	10095.9	10100.2	10179.6	10122.9
32.5°	9768.5	9833.7	9852.1	9910.2	9862.0
35°	9479.3	9544.5	9565.7	9625.3	9572.8
37.5°	9167.4	9222.7	9261.0	9304.9	9263.8
40°	8837.1	8886.7	8915.1	8969.0	8915.1
42.5°	8468.5	8539.4	8579.1	8617.4	8529.5
45°	8087.2	8168.0	8185.0	8172.3	7131.8
47.5°	7683.2	7771.1	7781.0	6785.9	6594.5
50°	7238.1	7348.7	7347.3	6271.3	6220.3
52.5°	6774.6	6880.9	6876.6	5868.7	5834.7
55°	6275.6	6390.4	5612.2	5449.1	5452.0
57.5°	5766.7	5848.9	5035.2	5042.3	4948.7
60°	5213.8	5291.8	4547.6	4503.6	4342.0
62.5°	4659.5	4692.1	4075.5	3861.5	3553.8
65°	4075.5	4109.5	3568.0	2934.4	2541.7
67.5°	3475.9	3509.9	2961.3	2183.1	2153.3
70°	2872.0	2594.1	2246.8	1818.7	1832.9
72.5°	2276.6	1993.1	1468.6	1409.1	1017.8
75°	1716.7	1504.0	1141.1	766.9	745.6
77.5°	1195.0	1036.2	611.0	523.1	489.1
80°	741.4	520.2	365.7	324.6	311.9
82.5°	375.7	299.1	198.5	198.5	198.5
85°	153.1	109.2	112.0	121.9	123.3
87.5°	32.6	43.9	53.9	55.3	53.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)