

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-CLI-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 (P23766)
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-CLI-UNV-L850-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

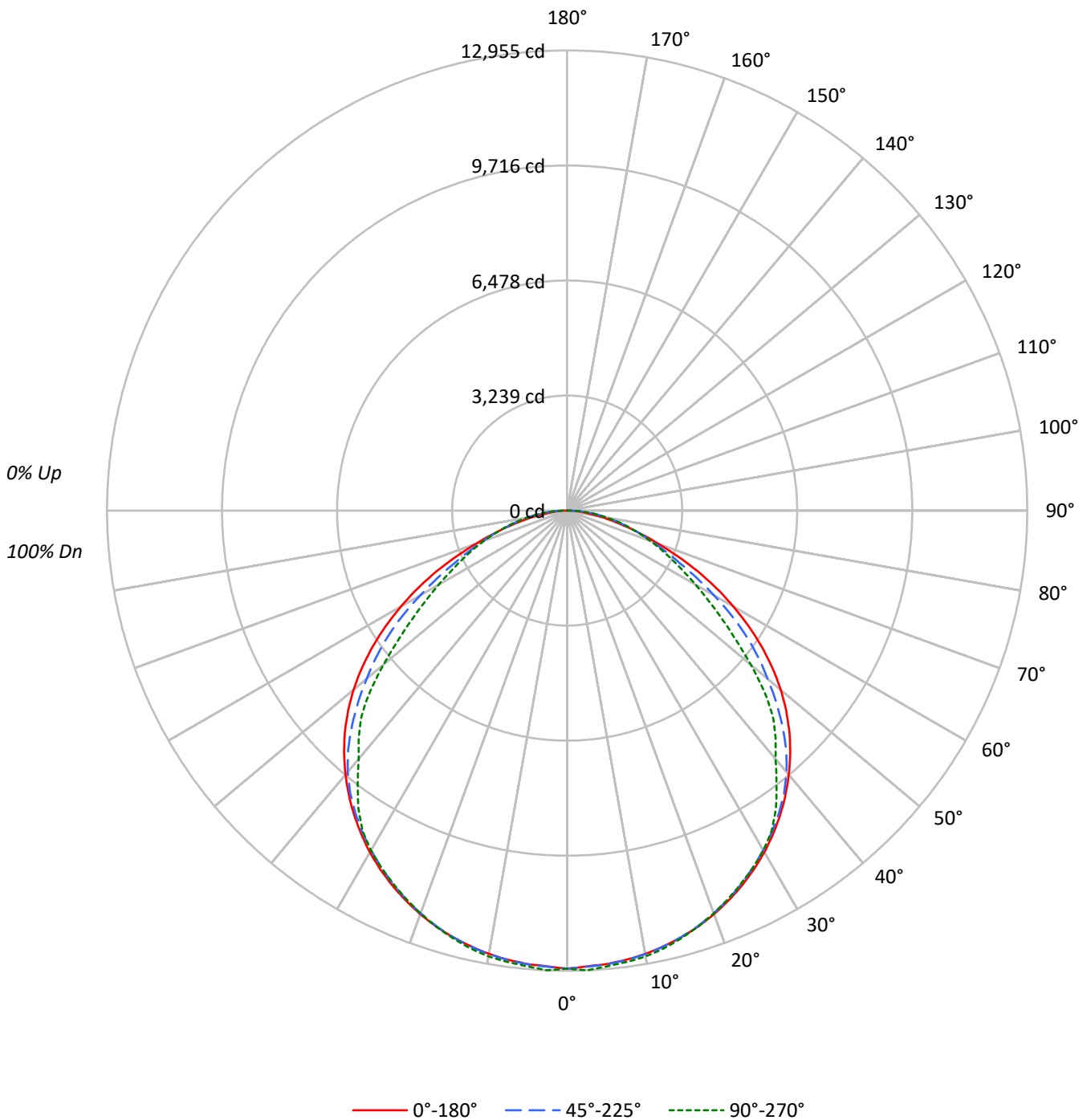
Lumens per Lamp: N/A
Luminaire Lumens: 34648.0 lumens
Efficiency: N/A
Efficacy: 164.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17352	17352	17352
5°	17305	17318	17395
10°	17315	17323	17414
15°	17317	17315	17356
20°	17313	17273	17277
25°	17286	17222	17201
30°	17258	17154	17164
35°	17177	17071	16829
40°	17055	16881	16030
45°	16839	16299	15586
50°	16433	15432	14116
55°	15685	14432	12482
60°	14556	12877	11257
65°	12938	11149	10351
70°	10737	9964	9757
75°	8684	9119	9231
80°	6898	8721	8685
85°	5402	9369	8938



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1223.0	3.5
10°-20°	3517.9	10.2
20°-30°	5364.1	15.5
30°-40°	6489.8	18.7
40°-50°	6573.6	19.0
50°-60°	5433.2	15.7
60°-70°	3588.5	10.4
70°-80°	1871.2	5.4
80°-90°	586.6	1.7
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°	10105.0	29.2
0°-40°	16594.8	47.9
0°-60°	28601.6	82.5
0°-90°	34648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12896	12896	12896	12896	12896	
5°	12813	12890	12822	12878	12879	###
15°	12432	12495	12430	12469	12460	3511
25°	11644	11690	11600	11630	11586	5369
35°	10458	10472	10393	10379	10246	6541
45°	8849	8826	8566	8300	8191	6814
55°	6686	6587	6152	5555	5321	5960
65°	4064	3946	3502	3274	3251	4014
75°	1670	1700	1754	1777	1776	1820
85°	350	450	607	602	579	425
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12896.2	12896.2	12896.2	12896.2	12896.2
2.5°	12842.0	12917.9	12854.4	12910.1	12955.0
5°	12812.6	12890.0	12821.9	12877.6	12879.2
7.5°	12755.3	12832.7	12763.0	12818.8	12817.2
10°	12673.2	12746.0	12679.4	12746.0	12746.0
12.5°	12561.8	12633.0	12568.0	12629.9	12620.6
15°	12431.7	12495.2	12430.2	12468.9	12459.6
17.5°	12278.5	12335.7	12263.0	12295.5	12276.9
20°	12091.1	12143.8	12063.3	12105.1	12066.4
22.5°	11880.6	11930.1	11848.1	11879.0	11835.7
25°	11643.7	11690.2	11600.4	11629.8	11586.4
27.5°	11388.3	11430.1	11329.4	11365.1	11331.0
30°	11108.1	11128.2	11041.5	11087.9	11047.7
32.5°	10795.3	10807.7	10731.9	10773.7	10705.5
35°	10457.8	10471.8	10392.8	10378.9	10245.7
37.5°	10097.1	10103.3	10029.0	9903.6	9683.7
40°	9710.1	9707.0	9611.0	9321.5	9126.4
42.5°	9296.7	9295.2	9126.4	8796.7	8685.2
45°	8849.3	8826.1	8566.0	8299.7	8191.3
47.5°	8369.4	8344.6	7980.8	7768.7	7522.5
50°	7850.7	7807.4	7372.3	7082.8	6743.8
52.5°	7291.8	7225.3	6782.5	6314.9	5994.5
55°	6686.5	6587.4	6152.4	5554.8	5321.0
57.5°	6056.4	5909.3	5486.7	4904.6	4714.2
60°	5409.3	5245.2	4785.4	4307.0	4183.1
62.5°	4743.6	4581.0	4111.9	3751.2	3683.1
65°	4063.9	3946.3	3501.9	3274.4	3251.1
67.5°	3367.3	3325.4	2986.4	2870.3	2861.0
70°	2729.4	2721.7	2532.8	2474.0	2480.2
72.5°	2181.4	2172.1	2144.2	2114.8	2116.3
75°	1670.5	1699.9	1754.1	1777.3	1775.7
77.5°	1246.3	1306.6	1421.2	1467.7	1459.9
80°	890.2	980.0	1125.5	1168.9	1120.9
82.5°	592.9	687.4	859.2	865.4	826.7
85°	349.9	450.5	606.9	602.2	579.0
87.5°	173.4	270.9	363.8	348.3	332.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)