

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

Luminaire Equipment: Sample No. Condition Description

Summary

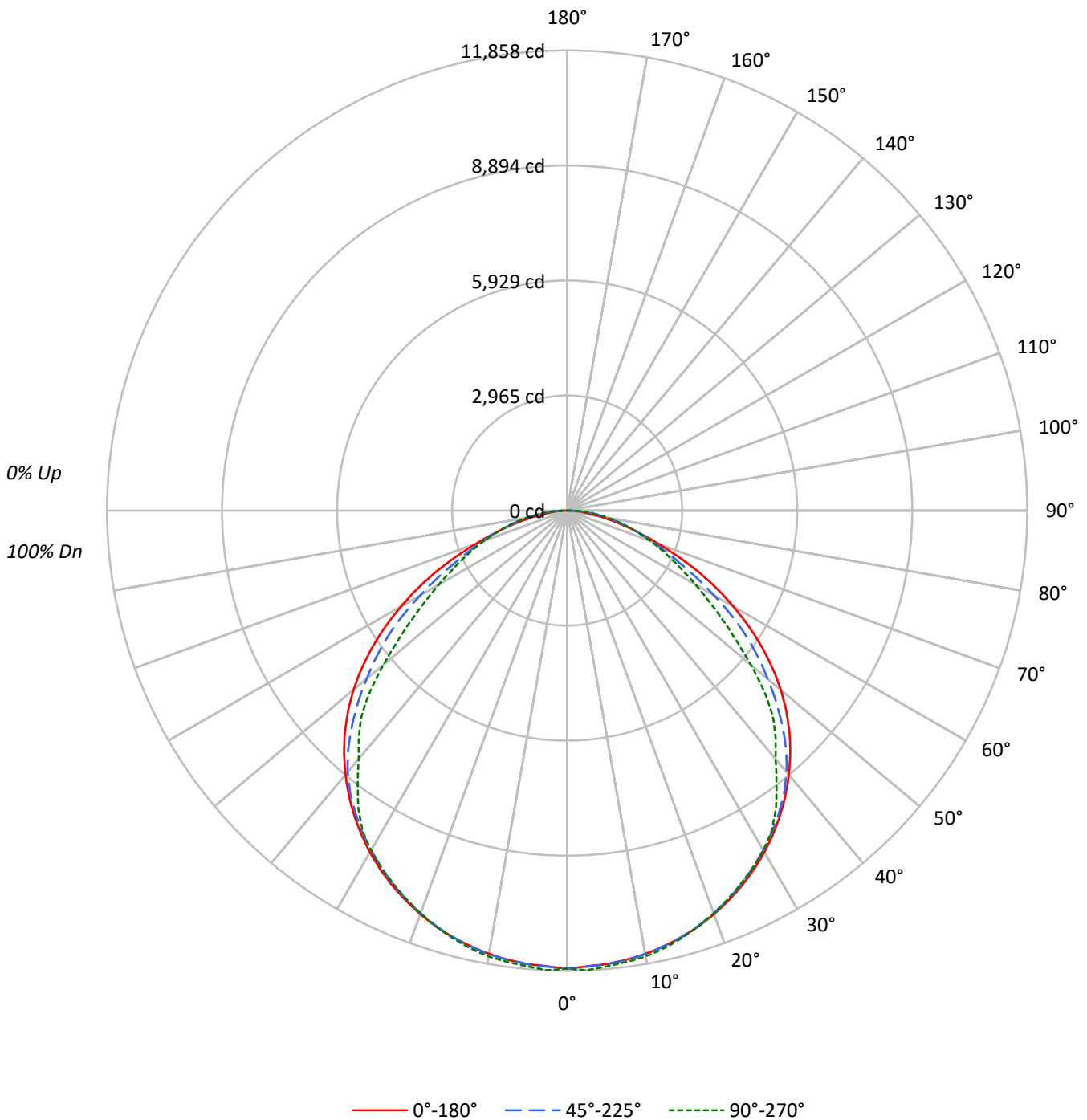
Lumens per Lamp: N/A
Luminaire Lumens: 31714.0 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	15882	15882	15882
5°	15840	15851	15922
10°	15849	15856	15940
15°	15850	15848	15886
20°	15847	15810	15814
25°	15822	15763	15744
30°	15796	15702	15711
35°	15723	15625	15404
40°	15611	15451	14672
45°	15413	14919	14267
50°	15042	14125	12921
55°	14357	13210	11425
60°	13324	11787	10303
65°	11843	10205	9474
70°	9828	9120	8930
75°	7949	8346	8450
80°	6313	7982	7950
85°	4945	8576	8182



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1119.4	3.5
10°-20°	3220.0	10.2
20°-30°	4909.9	15.5
30°-40°	5940.2	18.7
40°-50°	6016.9	19.0
50°-60°	4973.1	15.7
60°-70°	3284.7	10.4
70°-80°	1712.8	5.4
80°-90°	537.0	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°	9249.3	29.2
0°-40°	15189.5	47.9
0°-60°	26179.6	82.5
0°-90°	31714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31714.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11804	11804	11804	11804	11804	
5°	11728	11798	11736	11787	11788	###
15°	11379	11437	11378	11413	11404	3213
25°	10658	10700	10618	10645	10605	4914
35°	9572	9585	9513	9500	9378	5987
45°	8100	8079	7841	7597	7498	6237
55°	6120	6030	5631	5084	4870	5455
65°	3720	3612	3205	2997	2976	3674
75°	1529	1556	1606	1627	1625	1666
85°	320	412	556	551	530	389
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11804.1	11804.1	11804.1	11804.1	<i>11804.1</i>
2.5°	<i>11754.5</i>	<i>11824.0</i>	<i>11765.9</i>	<i>11816.9</i>	<i>11858.0</i>
5°	11727.6	11798.5	11736.1	11787.1	<i>11788.5</i>
7.5°	11675.2	11746.0	11682.3	11733.3	<i>11731.9</i>
10°	11600.1	11666.7	11605.7	11666.7	<i>11666.7</i>
12.5°	11498.0	11563.2	11503.7	11560.4	<i>11551.9</i>
15°	11379.0	11437.1	11377.6	11413.0	<i>11404.5</i>
17.5°	11238.7	11291.2	11224.6	11254.3	<i>11237.3</i>
20°	11067.3	11115.4	11041.8	11080.0	<i>11044.6</i>
22.5°	10874.5	10919.9	10844.8	10873.1	<i>10833.4</i>
25°	10657.7	10700.2	10618.0	10645.0	<i>10605.3</i>
27.5°	10423.9	10462.2	10370.1	10402.7	<i>10371.5</i>
30°	10167.4	10185.8	10106.5	10149.0	<i>10112.2</i>
32.5°	9881.2	9892.5	9823.1	9861.3	<i>9799.0</i>
35°	9572.3	9585.0	9512.7	9500.0	<i>9378.1</i>
37.5°	9242.1	9247.7	9179.7	9064.9	<i>8863.7</i>
40°	8887.8	8885.0	8797.1	8532.1	<i>8353.6</i>
42.5°	8509.5	8508.0	8353.6	8051.7	<i>7949.7</i>
45°	8099.9	8078.7	7840.6	7596.9	<i>7497.7</i>
47.5°	7660.6	7638.0	7305.0	7110.8	<i>6885.5</i>
50°	7185.9	7146.2	6748.1	6483.1	<i>6172.7</i>
52.5°	6674.4	6613.4	6208.2	5780.2	<i>5486.9</i>
55°	6120.3	6029.6	5631.4	5084.4	<i>4870.4</i>
57.5°	5543.5	5408.9	5022.1	4489.3	<i>4315.0</i>
60°	4951.2	4801.0	4380.1	3942.3	<i>3828.9</i>
62.5°	4341.9	4193.1	3763.7	3433.5	<i>3371.2</i>
65°	3719.8	3612.1	3205.4	2997.1	<i>2975.8</i>
67.5°	3082.1	3043.9	2733.5	2627.2	<i>2618.7</i>
70°	2498.3	2491.2	2318.3	2264.5	<i>2270.1</i>
72.5°	1996.6	1988.1	1962.6	1935.7	<i>1937.1</i>
75°	1529.0	1555.9	1605.5	1626.8	<i>1625.4</i>
77.5°	1140.7	1196.0	1300.9	1343.4	<i>1336.3</i>
80°	814.8	897.0	1030.2	1069.9	<i>1026.0</i>
82.5°	542.7	629.2	786.5	792.1	<i>756.7</i>
85°	320.3	412.4	555.5	551.2	<i>530.0</i>
87.5°	158.7	248.0	333.0	318.8	<i>304.7</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)