

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-LD5-36SE-W-UNV-L840-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 (P23760)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-UNV-L840-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

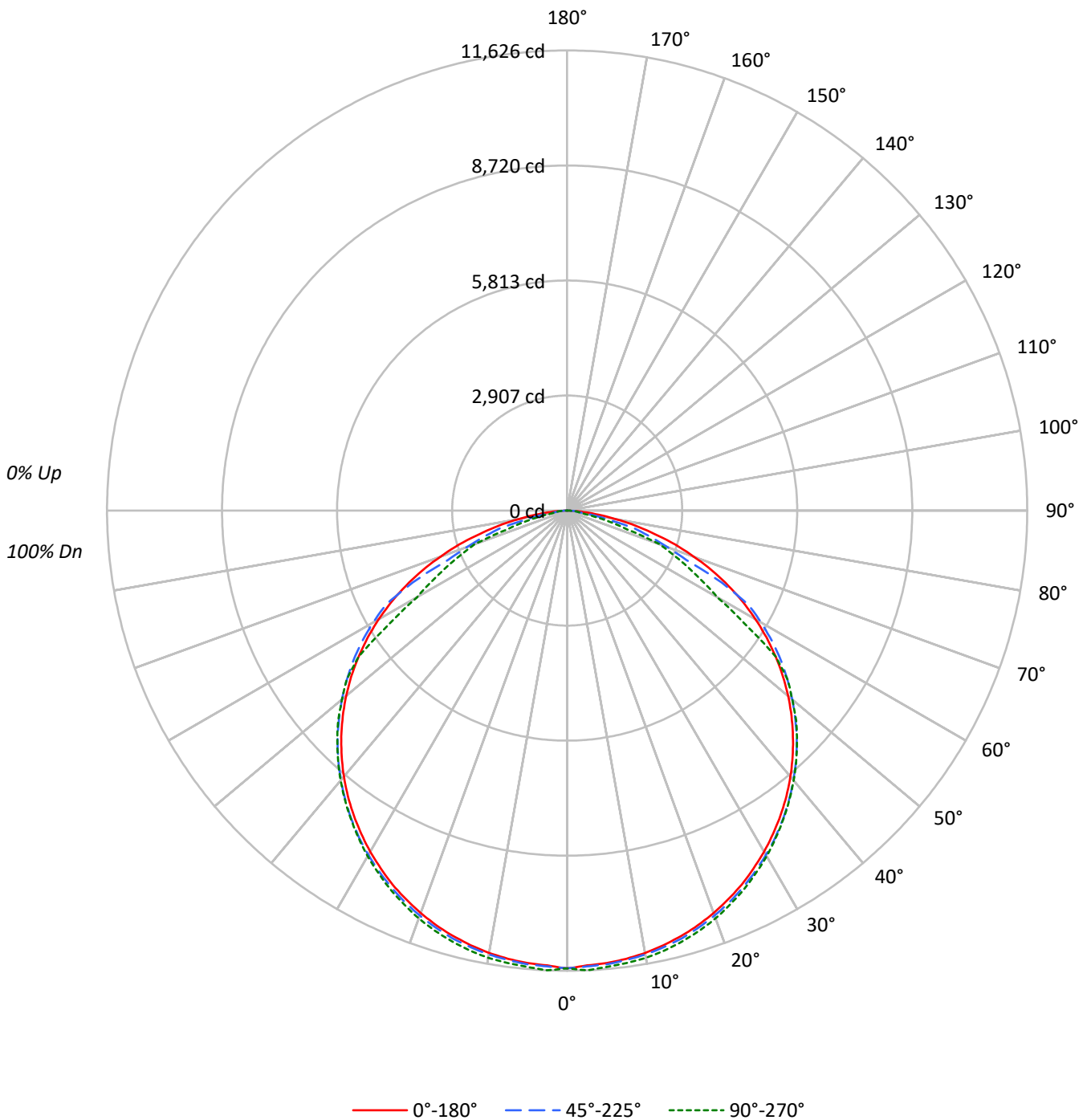
Lumens per Lamp: N/A
Luminaire Lumens: 33386.0 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 232
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





TEST NUMBER: P#

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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	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15560	15560	15560
5°	15496	15539	15627
10°	15505	15559	15677
15°	15501	15584	15692
20°	15493	15592	15701
25°	15487	15598	15685
30°	15460	15611	15669
35°	15440	15618	15638
40°	15413	15617	15641
45°	15354	15610	15629
50°	15263	15544	15541
55°	15085	15462	15078
60°	14804	15234	11797
65°	14311	13710	10629
70°	13407	10548	9796
75°	11871	9197	6105
80°	9776	5415	2729
85°	6442	3318	3574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1097.4	3.3
10°-20°	3166.2	9.5
20°-30°	4854.1	14.5
30°-40°	5953.1	17.8
40°-50°	6321.2	18.9
50°-60°	5773.6	17.3
60°-70°	4020.7	12.0
70°-80°	1875.3	5.6
80°-90°	324.4	1.0
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°	9117.7	27.3
0°-40°	15070.8	45.1
0°-60°	27165.6	81.4
0°-90°	33386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33386.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11565	11565	11565	11565	11565	
5°	11473	11554	11505	11560	11570	###
15°	11128	11206	11188	11255	11265	3142
25°	10432	10523	10507	10584	10565	4807
35°	9400	9508	9508	9572	9521	5882
45°	8069	8191	8204	8256	8214	6223
55°	6430	6559	6591	6602	6428	5743
65°	4495	4634	4306	3425	3339	4435
75°	2284	2428	1769	1226	1174	2441
85°	417	274	215	230	232	539
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11564.6	11564.6	11564.6	11564.6	<i>11564.6</i>
2.5°	<i>11503.6</i>	<i>11577.1</i>	<i>11528.6</i>	<i>11581.2</i>	<i>11625.6</i>
5°	11473.1	11553.5	11505.0	11560.4	<i>11570.2</i>
7.5°	11423.2	11499.4	11455.1	11516.1	<i>11531.3</i>
10°	11348.3	11423.2	11388.5	11460.6	<i>11474.5</i>
12.5°	11247.1	11323.4	11297.0	11376.0	<i>11385.8</i>
15°	11127.9	11205.5	11187.5	11255.4	<i>11265.1</i>
17.5°	10987.8	11068.2	11047.5	11119.5	<i>11126.5</i>
20°	10820.1	10907.4	10889.4	10974.0	<i>10965.6</i>
22.5°	10631.5	10724.4	10710.5	10795.1	<i>10770.2</i>
25°	10431.9	10523.4	10506.7	10584.4	<i>10565.0</i>
27.5°	10197.5	10298.8	10283.5	10358.4	<i>10327.9</i>
30°	9950.7	10053.3	10047.8	10115.7	<i>10085.2</i>
32.5°	9684.5	9794.1	9788.5	9855.1	<i>9807.9</i>
35°	9400.3	9508.5	9508.5	9572.2	<i>9520.9</i>
37.5°	9099.5	9209.0	9210.4	9271.4	<i>9222.8</i>
40°	8775.0	8884.5	8891.5	8949.7	<i>8905.3</i>
42.5°	8433.9	8553.2	8558.7	8611.4	<i>8569.8</i>
45°	8069.3	8191.3	8203.8	8256.5	<i>8213.5</i>
47.5°	7688.0	7811.4	7822.5	7879.4	<i>7848.8</i>
50°	7291.5	7410.7	7426.0	7473.1	<i>7424.6</i>
52.5°	6872.8	6994.8	7015.6	7044.7	<i>7022.5</i>
55°	6430.5	6559.4	6591.3	6602.4	<i>6427.7</i>
57.5°	5972.9	6104.7	6135.2	5880.0	<i>5318.5</i>
60°	5501.5	5631.9	5661.0	4783.3	<i>4384.0</i>
62.5°	5010.7	5138.3	5170.2	3963.9	<i>3836.4</i>
65°	4495.0	4633.6	4306.4	3424.6	<i>3338.6</i>
67.5°	3965.3	4108.1	3256.8	2935.2	<i>2883.9</i>
70°	3408.0	3552.2	2681.4	2502.6	<i>2490.1</i>
72.5°	2872.8	2979.5	2200.3	1896.7	<i>1597.2</i>
75°	2283.5	2427.7	1769.1	1225.6	<i>1174.3</i>
77.5°	1770.5	1530.7	1067.6	898.4	<i>708.5</i>
80°	1261.7	1023.2	698.8	373.0	<i>352.2</i>
82.5°	800.0	668.3	274.5	281.5	<i>293.9</i>
85°	417.3	274.5	214.9	230.2	<i>231.5</i>
87.5°	134.5	117.9	128.9	127.6	<i>126.2</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)