

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-CL-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 (P23762)
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-CL-UNV-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

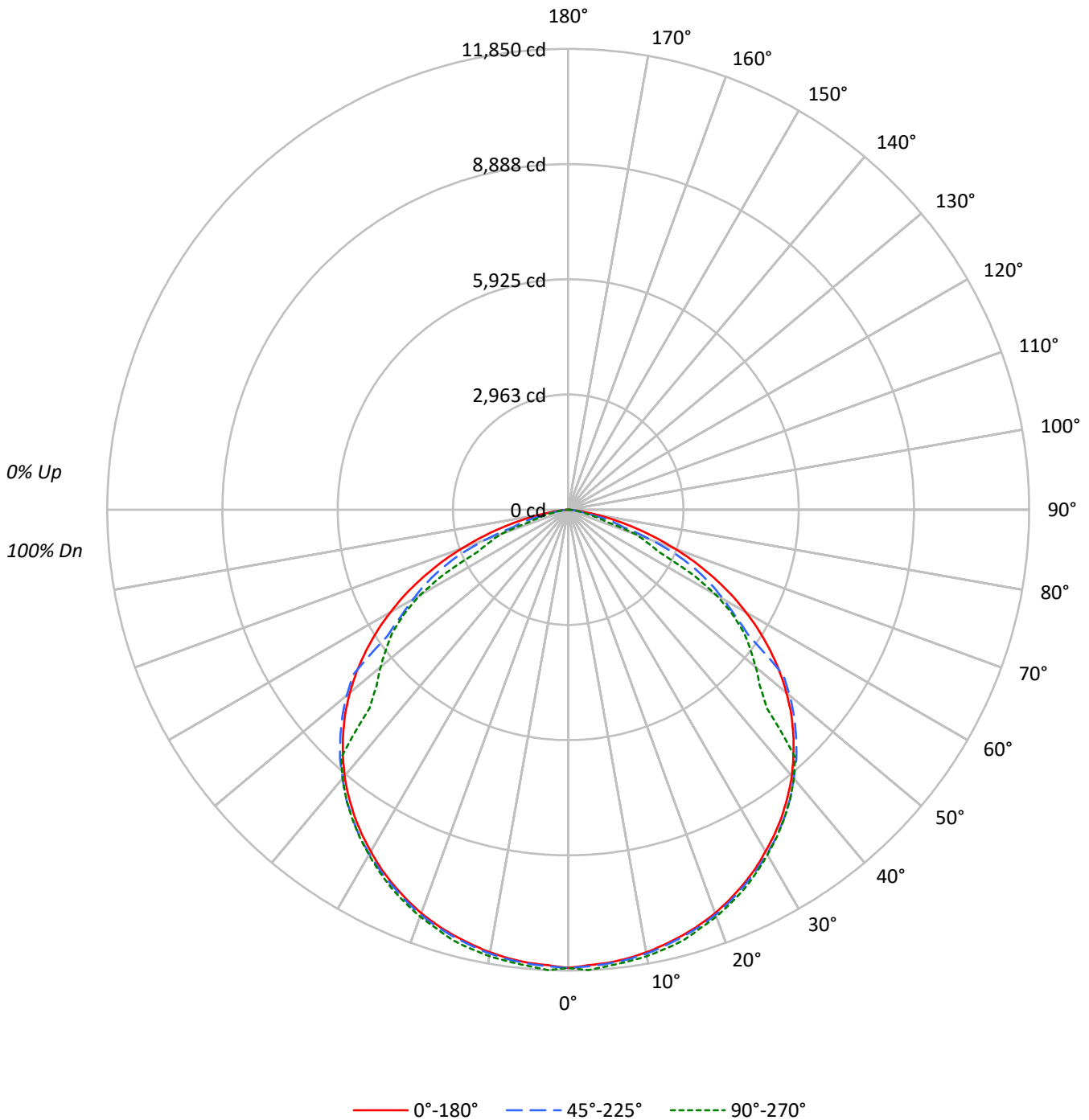
Lumens per Lamp: N/A
Luminaire Lumens: 31849.0 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-36SE-W-CL-UNV-L740-ED3-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-36SE-W-CL-UNV-L740-ED3-U

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°	15851	15851	15851
5°	15793	15828	15906
10°	15792	15837	15929
15°	15791	15839	15967
20°	15811	15870	15944
25°	15792	15852	15948
30°	15763	15878	15914
35°	15755	15899	15911
40°	15706	15845	15845
45°	15571	15760	13732
50°	15331	15562	13175
55°	14896	13321	12941
60°	14197	12383	11823
65°	13129	11494	8188
70°	11432	8944	7296
75°	9030	6003	3922
80°	5813	2868	2445
85°	2391	1749	1927



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-36SE-W-CL-UNV-L740-ED3-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1117.5	3.5
10°-20°	3221.1	10.1
20°-30°	4938.4	15.5
30°-40°	6052.8	19.0
40°-50°	6222.7	19.5
50°-60°	5310.8	16.7
60°-70°	3511.0	11.0
70°-80°	1300.8	4.1
80°-90°	173.9	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°	9277.0	29.1
0°-40°	15329.7	48.1
0°-60°	26863.2	84.3
0°-90°	31849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11781	11781	11781	11781	11781	
5°	11693	11775	11719	11765	11776	###
15°	11336	11405	11371	11457	11462	3202
25°	10638	10694	10678	10774	10742	4905
35°	9592	9658	9679	9740	9687	6000
45°	8183	8265	8282	8269	7216	6306
55°	6350	6466	5679	5514	5517	5666
65°	4124	4158	3610	2969	2572	4066
75°	1737	1522	1155	776	754	1864
85°	155	110	113	123	125	256
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-36SE-W-CL-UNV-L740-ED3-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11780.8	11780.8	11780.8	11780.8	11780.8
2.5°	11723.4	11796.6	11753.6	11808.1	11849.7
5°	11693.3	11775.1	11719.1	11765.0	11776.5
7.5°	11641.7	11717.7	11666.1	11726.3	11717.7
10°	11558.5	11627.3	11591.5	11654.6	11658.9
12.5°	11452.3	11521.2	11488.2	11565.7	11564.2
15°	11336.2	11405.0	11370.6	11456.6	11462.4
17.5°	11199.9	11263.0	11237.2	11316.1	11284.5
20°	11042.1	11096.6	11083.7	11158.3	11135.3
22.5°	10848.5	10904.4	10891.5	10977.6	10943.1
25°	10637.6	10693.5	10677.8	10773.9	10742.3
27.5°	10409.5	10462.6	10461.2	10551.5	10502.8
30°	10145.6	10215.9	10220.2	10300.5	10243.1
32.5°	9884.5	9950.5	9969.2	10028.0	9979.2
35°	9591.9	9657.9	9679.4	9739.7	9686.6
37.5°	9276.3	9332.3	9371.0	9415.5	9373.9
40°	8942.1	8992.3	9021.0	9075.5	9021.0
42.5°	8569.2	8640.9	8681.1	8719.8	8630.9
45°	8183.3	8265.1	8282.3	8269.4	8216.5
47.5°	7774.5	7863.4	7873.5	7866.5	7872.9
50°	7324.1	7436.0	7434.6	7434.6	7436.0
52.5°	6855.1	6962.6	6958.3	6958.3	6958.3
55°	6350.1	6466.3	6466.3	6466.3	6466.3
57.5°	5835.2	5918.4	5918.4	5918.4	5918.4
60°	5275.8	5354.7	5354.7	5354.7	5354.7
62.5°	4714.9	4747.9	4747.9	4747.9	4747.9
65°	4123.9	4158.4	4158.4	4158.4	4158.4
67.5°	3517.2	3551.6	3551.6	3551.6	3551.6
70°	2906.1	2625.0	2273.5	1840.4	1854.7
72.5°	2303.7	2016.8	1486.1	1425.8	1029.9
75°	1737.1	1521.9	1154.7	776.0	754.5
77.5°	1209.2	1048.6	618.2	529.3	494.9
80°	750.2	526.4	370.1	328.5	315.6
82.5°	380.1	302.7	200.8	200.8	200.8
85°	154.9	110.4	113.3	123.4	124.8
87.5°	33.0	44.5	54.5	55.9	54.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)