

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-N-CLWG-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-N-CLWG-UNV-L850-ED3-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

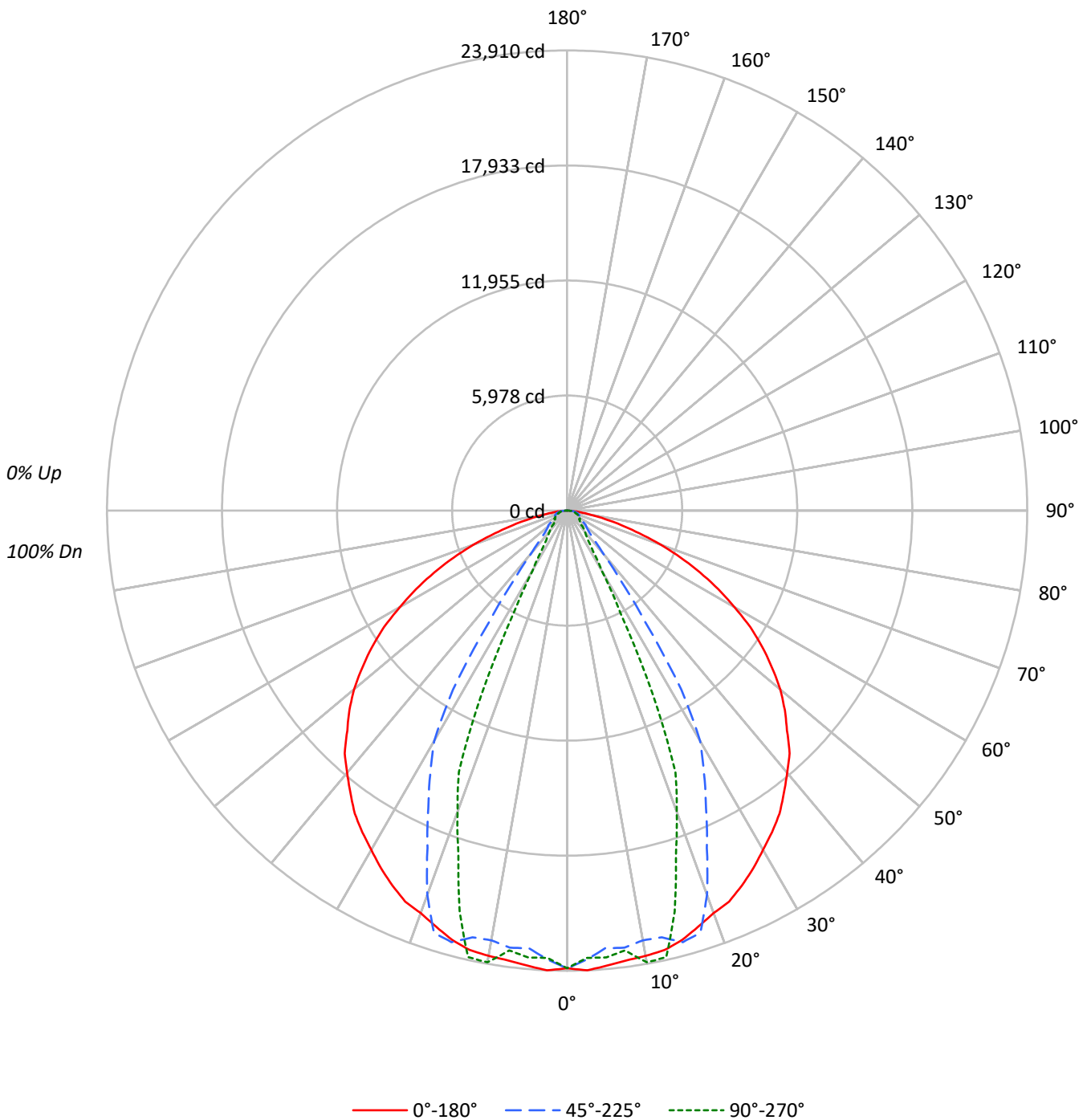
Lumens per Lamp: N/A
Luminaire Lumens: 31969.0 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 232
Input Voltage (V): NR
Input Current (A_{in}): 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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71				71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64				64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58				58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48				48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44				44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41				41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38				38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31996	31996	31996
5°	32049	30828	31477
10°	32095	30976	32566
15°	32167	32334	30053
20°	31862	30412	23854
25°	31908	25354	15582
30°	31622	21478	5597
35°	31589	11635	3148
40°	31231	5073	2466
45°	30748	3135	1933
50°	30269	2731	1825
55°	29080	2369	1786
60°	26980	2122	1919
65°	24252	2398	2097
70°	20339	2579	2162
75°	15205	2941	2341
80°	9549	3415	2670
85°	6359	4281	3909



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2204.1	6.9
10°-20°	6223.9	19.5
20°-30°	7621.3	23.8
30°-40°	5985.0	18.7
40°-50°	4438.3	13.9
50°-60°	2701.9	8.5
60°-70°	1618.5	5.1
70°-80°	888.0	2.8
80°-90°	288.0	0.9
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°	16049.3	50.2
0°-40°	22034.3	68.9
0°-60°	29174.5	91.3
0°-90°	31969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31969.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23780	23780	23780	23780	23780	
5°	23729	23083	22825	23077	23306	###
15°	23093	22460	23213	22275	21575	6502
25°	21493	21560	17078	13395	10496	9894
35°	19232	17494	7084	2370	1917	12000
45°	16160	11603	1648	1248	1016	12496
55°	12396	3197	1010	854	761	11032
65°	7617	942	753	708	659	7526
75°	2925	595	566	492	450	3167
85°	412	324	277	255	253	503
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23780.1	23780.1	23780.1	23780.1	23780.1
2.5°	23910.0	23587.8	23341.0	23203.2	23259.3
5°	23728.9	23083.0	22825.0	23076.6	23305.8
7.5°	23571.8	22611.8	22903.5	22925.9	23046.1
10°	23491.7	22566.9	22672.7	23171.1	23836.2
12.5°	23385.9	22671.1	22708.0	23387.5	23762.5
15°	23092.6	22459.6	23212.8	22275.3	21574.9
17.5°	22664.7	21965.9	23001.3	19733.4	18781.5
20°	22252.8	21429.1	21239.9	17577.9	16659.6
22.5°	21986.8	21347.3	18973.8	15662.7	14713.9
25°	21493.2	21560.5	17077.9	13395.0	10495.8
27.5°	20949.9	21058.8	15401.5	8933.2	6013.1
30°	20353.7	20478.7	13824.5	5279.1	3602.8
32.5°	19813.6	19108.4	11040.7	3293.4	2504.9
35°	19231.8	17494.5	7083.7	2370.3	1916.8
37.5°	18499.4	15798.9	4484.2	1875.1	1609.1
40°	17781.4	14276.4	2888.0	1601.0	1403.9
42.5°	17109.9	13021.5	2101.1	1399.1	1267.7
45°	16159.5	11603.2	1647.5	1248.5	1016.1
47.5°	15337.4	9939.6	1440.8	1056.1	876.7
50°	14460.7	7599.8	1304.6	939.2	871.8
52.5°	13420.6	4971.4	1205.2	899.1	814.1
55°	12396.5	3197.3	1009.7	854.2	761.3
57.5°	11290.7	2027.4	891.1	828.6	794.9
60°	10026.2	1367.1	788.5	785.3	713.2
62.5°	8856.3	1123.5	761.3	753.2	674.7
65°	7617.4	942.4	753.2	708.4	658.7
67.5°	6380.2	807.7	681.1	647.5	604.2
70°	5170.2	738.8	655.5	641.1	549.7
72.5°	3926.5	609.0	581.8	543.3	456.8
75°	2924.8	594.6	565.7	492.0	450.3
77.5°	1979.3	548.1	514.5	440.7	407.1
80°	1232.4	503.2	440.7	386.2	344.6
82.5°	732.4	419.9	362.2	318.9	291.7
85°	411.9	323.7	277.3	254.8	253.2
87.5°	88.1	117.0	93.0	88.1	62.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)