

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-A-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 (P23761)
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-A-UNV-L850-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

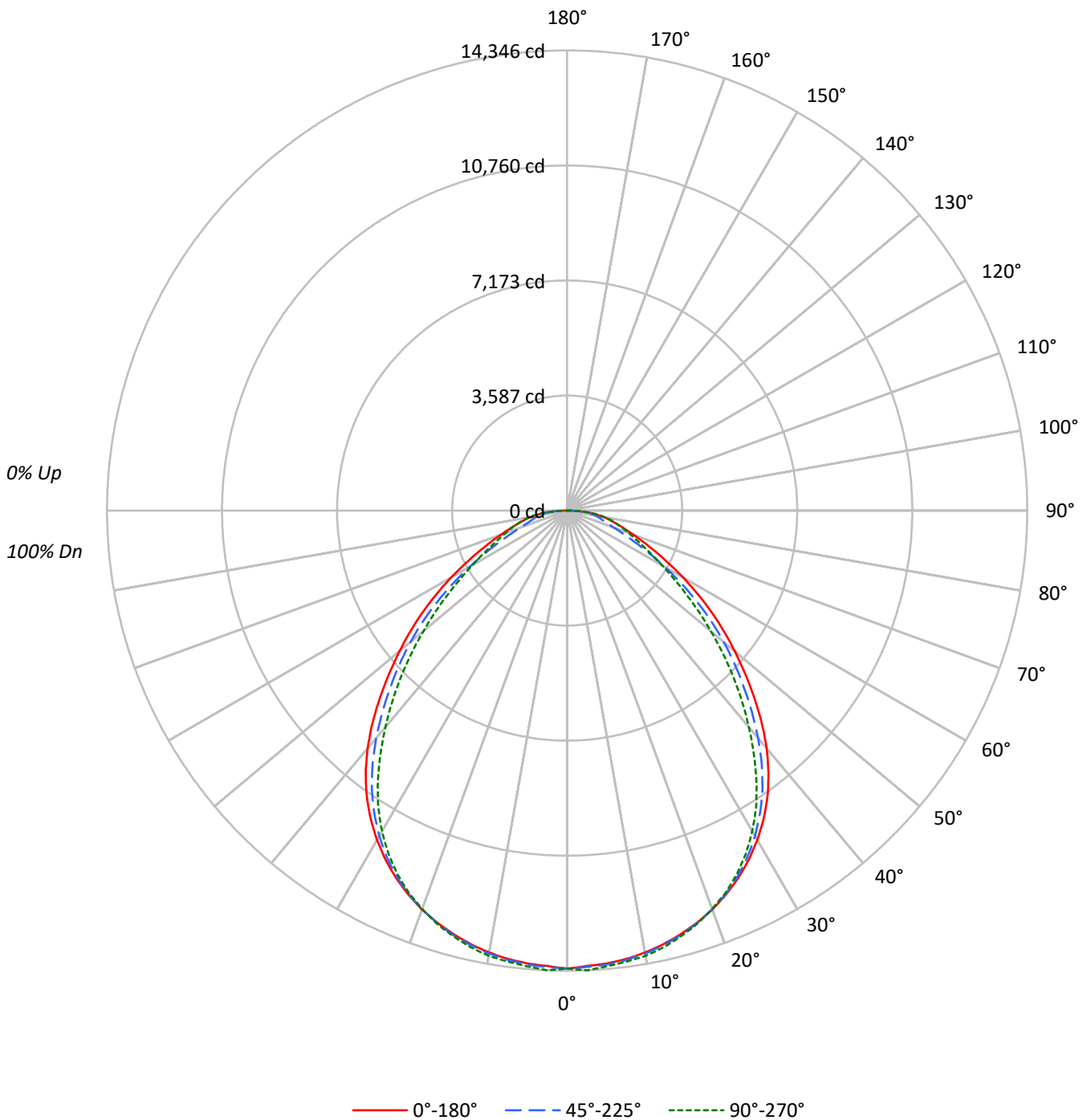
Lumens per Lamp: N/A
Luminaire Lumens: 32796.0 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19209	19209	19209
5°	19141	19185	19263
10°	19114	19158	19255
15°	19050	19088	19133
20°	18950	18937	18923
25°	18745	18680	18575
30°	18421	18198	17933
35°	17886	17436	16899
40°	16996	16266	15486
45°	15701	14825	13928
50°	14273	13350	12251
55°	12834	11557	10591
60°	11230	9445	9190
65°	9683	7428	8294
70°	8633	6062	7993
75°	8270	5918	8354
80°	8945	6999	9307
85°	10042	8426	10141



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1353.1	4.1
10°-20°	3872.4	11.8
20°-30°	5792.7	17.7
30°-40°	6609.0	20.2
40°-50°	6016.1	18.3
50°-60°	4417.5	13.5
60°-70°	2608.4	8.0
70°-80°	1494.8	4.6
80°-90°	632.0	1.9
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°	11018.2	33.6
0°-40°	17627.2	53.7
0°-60°	28060.8	85.6
0°-90°	32796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32796.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14277	14277	14277	14277	14277	
5°	14172	14261	14204	14261	14262	###
15°	13676	13752	13704	13752	13736	3859
25°	12626	12671	12583	12578	12512	5812
35°	10889	10836	10615	10433	10288	6784
45°	8252	8203	7791	7442	7320	6359
55°	5471	5218	4927	4569	4515	4893
65°	3042	2655	2333	2496	2605	3061
75°	1591	1364	1138	1484	1607	1715
85°	650	601	546	644	657	680
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14276.7	14276.7	14276.7	14276.7	14276.7
2.5°	14210.6	14292.8	14241.2	14297.6	14345.9
5°	14172.0	14260.6	14204.2	14260.6	14262.2
7.5°	14101.2	14183.3	14128.5	14189.7	14183.3
10°	13990.1	14072.2	14022.3	14088.3	14093.1
12.5°	13848.4	13927.3	13875.7	13951.4	13938.5
15°	13676.1	13751.8	13703.5	13751.8	13735.7
17.5°	13473.2	13542.5	13479.7	13532.8	13505.4
20°	13234.9	13292.9	13225.3	13275.2	13215.6
22.5°	12949.9	13001.5	12930.6	12958.0	12896.8
25°	12626.3	12671.4	12582.8	12578.0	12512.0
27.5°	12265.7	12289.8	12177.1	12138.5	12062.8
30°	11856.7	11863.1	11713.4	11640.9	11542.7
32.5°	11397.8	11381.7	11190.1	11082.2	10961.5
35°	10889.0	10835.9	10615.3	10433.4	10288.5
37.5°	10314.2	10230.5	9966.4	9697.6	9559.1
40°	9676.6	9578.4	9261.2	8927.9	8816.8
42.5°	8982.7	8899.0	8525.4	8177.6	8068.2
45°	8251.7	8203.4	7791.2	7441.8	7319.5
47.5°	7520.7	7485.3	7082.8	6726.9	6578.8
50°	6818.7	6741.4	6377.6	5987.9	5852.7
52.5°	6137.7	5979.9	5659.5	5260.2	5160.3
55°	5471.1	5218.3	4926.9	4569.4	4514.7
57.5°	4810.9	4484.1	4200.7	3933.4	3931.8
60°	4173.3	3799.8	3510.0	3369.9	3415.0
62.5°	3576.0	3192.8	2878.8	2888.5	2970.6
65°	3041.5	2655.0	2333.0	2495.6	2605.1
67.5°	2582.6	2213.9	1887.0	2189.7	2294.4
70°	2194.6	1861.3	1540.9	1919.2	2031.9
72.5°	1867.7	1587.5	1299.3	1693.8	1808.1
75°	1590.8	1363.7	1138.3	1484.5	1606.9
77.5°	1365.4	1164.1	1020.8	1284.9	1412.0
80°	1154.4	977.3	903.3	1091.6	1201.1
82.5°	914.5	792.2	748.7	887.2	943.5
85°	650.5	600.6	545.8	644.0	656.9
87.5°	357.4	370.3	305.9	370.3	371.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)