

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-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 (P23760)
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-UNV-L850-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

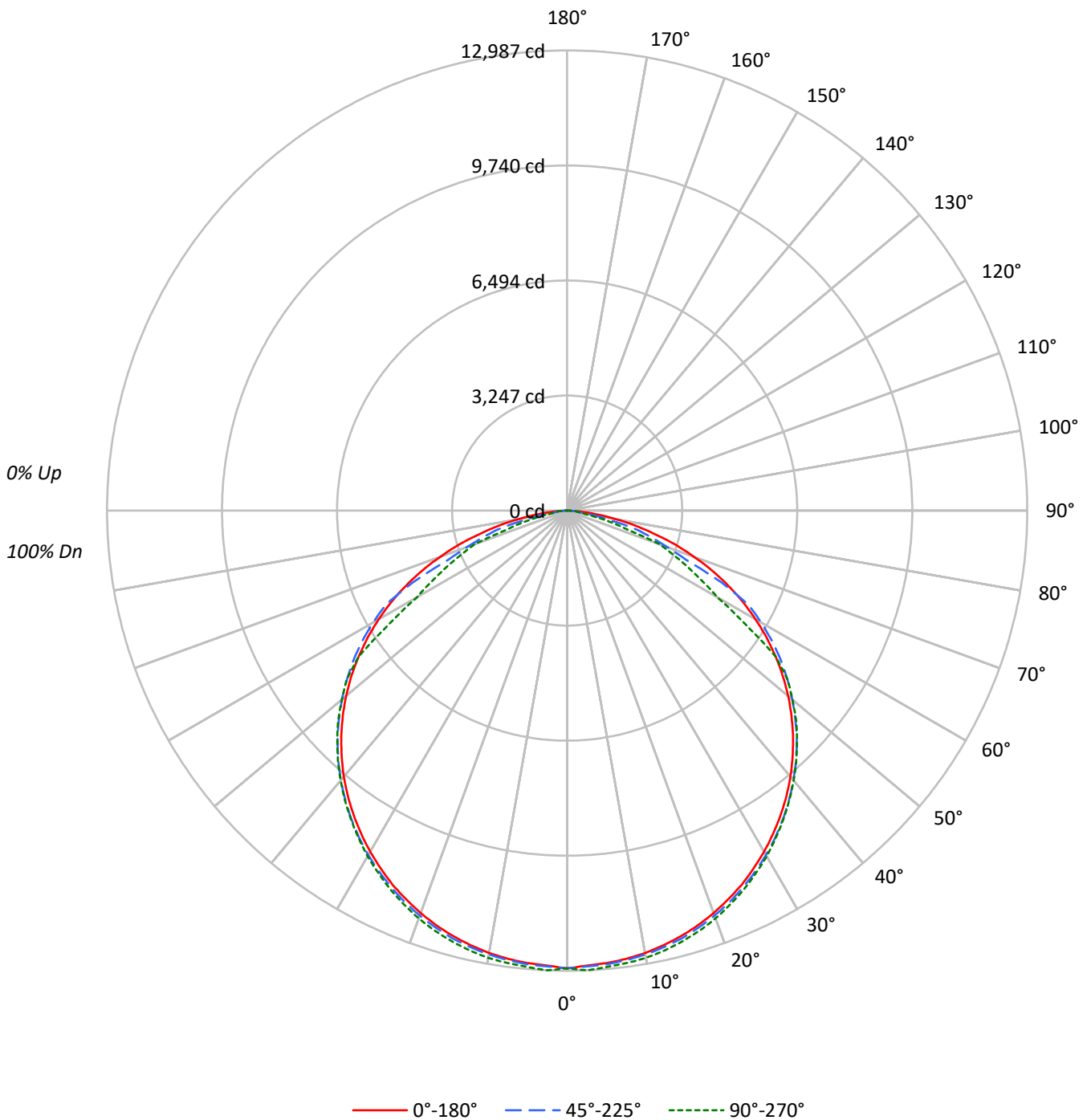
Lumens per Lamp: N/A
Luminaire Lumens: 37296.0 lumens
Efficiency: N/A
Efficacy: 176.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	17382	17382	17382
5°	17311	17359	17457
10°	17320	17382	17513
15°	17316	17409	17529
20°	17307	17418	17540
25°	17301	17425	17521
30°	17270	17439	17504
35°	17249	17447	17470
40°	17218	17446	17473
45°	17152	17438	17459
50°	17050	17365	17361
55°	16851	17273	16844
60°	16538	17018	13179
65°	15987	15316	11874
70°	14977	11784	10943
75°	13262	10274	6820
80°	10921	6048	3048
85°	7197	3707	3994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1225.9	3.3
10°-20°	3537.0	9.5
20°-30°	5422.6	14.5
30°-40°	6650.3	17.8
40°-50°	7061.5	18.9
50°-60°	6449.8	17.3
60°-70°	4491.6	12.0
70°-80°	2094.9	5.6
80°-90°	362.4	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°	10185.5	27.3
0°-40°	16835.8	45.1
0°-60°	30347.0	81.4
0°-90°	37296.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	37296.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12919	12919	12919	12919	12919	
5°	12817	12907	12852	12914	12925	###
15°	12431	12518	12498	12574	12584	3510
25°	11654	11756	11737	11824	11802	5370
35°	10501	10622	10622	10693	10636	6571
45°	9014	9151	9165	9223	9175	6952
55°	7184	7328	7363	7376	7180	6415
65°	5021	5176	4811	3826	3730	4955
75°	2551	2712	1976	1369	1312	2727
85°	466	307	240	257	259	602
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12919.0	12919.0	12919.0	12919.0	12919.0
2.5°	12850.8	12932.9	12878.7	12937.6	12987.1
5°	12816.8	12906.6	12852.4	12914.3	12925.2
7.5°	12761.0	12846.2	12796.6	12864.8	12881.8
10°	12677.4	12761.0	12722.3	12802.8	12818.3
12.5°	12564.3	12649.5	12620.1	12708.4	12719.2
15°	12431.1	12517.8	12497.7	12573.6	12584.4
17.5°	12274.7	12364.5	12341.3	12421.8	12429.6
20°	12087.3	12184.8	12164.7	12259.2	12249.9
22.5°	11876.6	11980.4	11964.9	12059.4	12031.5
25°	11653.6	11755.8	11737.2	11824.0	11802.3
27.5°	11391.8	11504.9	11487.9	11571.5	11537.4
30°	11116.1	11230.7	11224.5	11300.4	11266.4
32.5°	10818.7	10941.1	10934.9	11009.3	10956.6
35°	10501.2	10622.0	10622.0	10693.3	10636.0
37.5°	10165.1	10287.5	10289.0	10357.2	10303.0
40°	9802.7	9925.1	9932.8	9997.9	9948.3
42.5°	9421.7	9554.9	9561.1	9619.9	9573.5
45°	9014.3	9150.6	9164.6	9223.4	9175.4
47.5°	8588.4	8726.2	8738.6	8802.1	8768.1
50°	8145.4	8278.6	8295.7	8348.3	8294.1
52.5°	7677.7	7814.0	7837.2	7869.7	7844.9
55°	7183.6	7327.6	7363.3	7375.6	7180.5
57.5°	6672.5	6819.6	6853.7	6568.7	5941.4
60°	6145.9	6291.4	6324.0	5343.5	4897.5
62.5°	5597.6	5740.1	5775.7	4428.2	4285.7
65°	5021.4	5176.3	4810.7	3825.7	3729.6
67.5°	4429.7	4589.3	3638.3	3278.9	3221.6
70°	3807.1	3968.2	2995.5	2795.7	2781.7
72.5°	3209.2	3328.5	2458.0	2118.8	1784.3
75°	2551.0	2712.0	1976.3	1369.2	1311.9
77.5°	1977.9	1709.9	1192.6	1003.7	791.5
80°	1409.5	1143.1	780.6	416.6	393.4
82.5°	893.7	746.5	306.7	314.4	328.4
85°	466.2	306.7	240.1	257.1	258.7
87.5°	150.2	131.7	144.0	142.5	140.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)