

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

Luminaire Equipment: Sample No. Condition Description

Summary

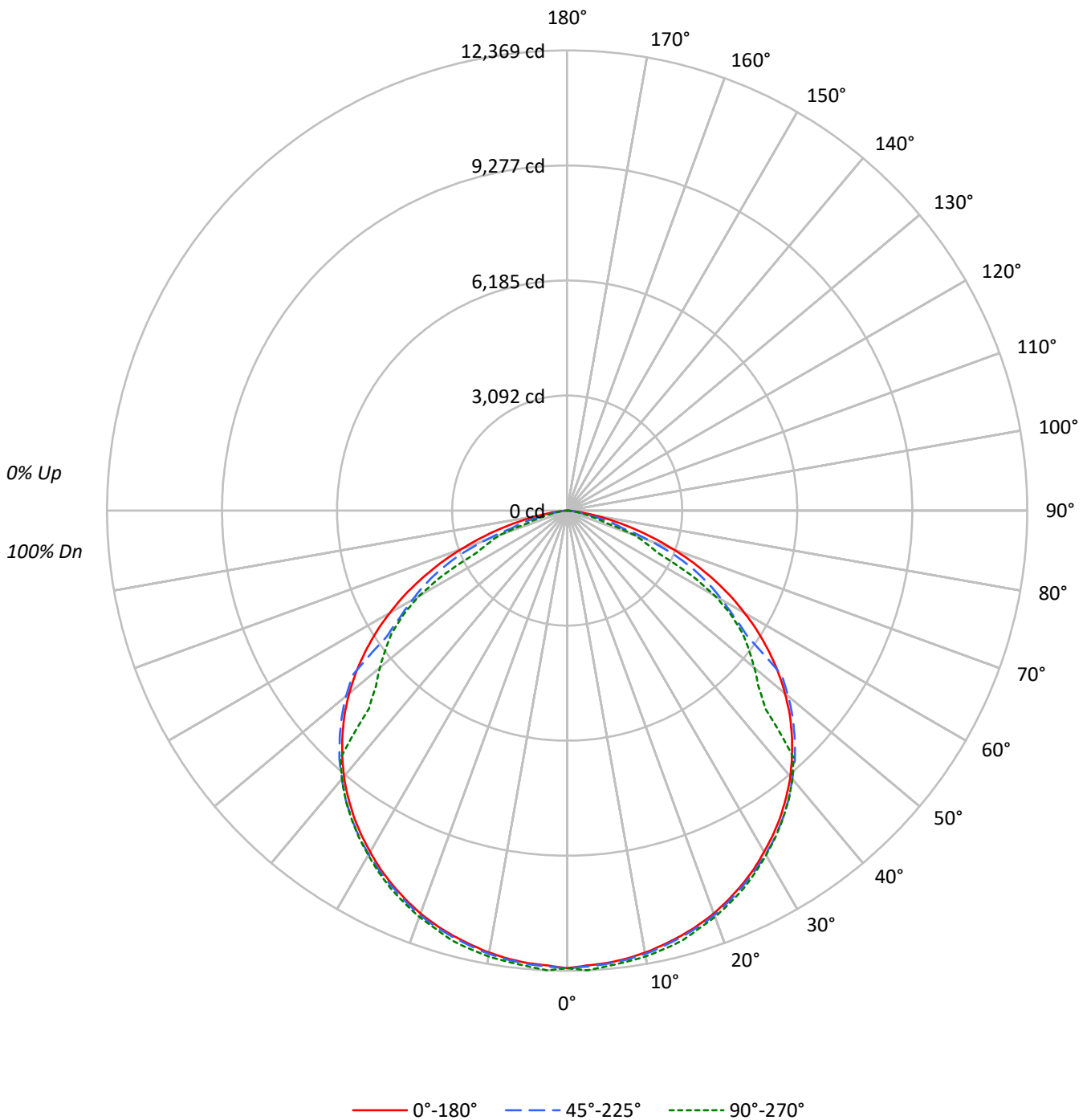
Lumens per Lamp: N/A
Luminaire Lumens: 33244.0 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



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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	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°	16545	16545	16545
5°	16485	16521	16602
10°	16483	16530	16627
15°	16482	16532	16666
20°	16503	16565	16642
25°	16484	16546	16646
30°	16453	16574	16611
35°	16445	16595	16608
40°	16394	16539	16539
45°	16253	16450	14333
50°	16002	16244	13752
55°	15549	13905	13508
60°	14819	12925	12341
65°	13705	11998	8547
70°	11933	9336	7616
75°	9426	6266	4094
80°	6068	2993	2552
85°	2496	1826	2012



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1166.5	3.5
10°-20°	3362.2	10.1
20°-30°	5154.7	15.5
30°-40°	6317.9	19.0
40°-50°	6495.3	19.5
50°-60°	5543.4	16.7
60°-70°	3664.8	11.0
70°-80°	1357.8	4.1
80°-90°	181.6	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°	9683.3	29.1
0°-40°	16001.2	48.1
0°-60°	28039.8	84.3
0°-90°	33244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12297	12297	12297	12297	12297	
5°	12206	12291	12232	12280	12292	###
15°	11833	11905	11869	11958	11964	3342
25°	11104	11162	11146	11246	11213	5120
35°	10012	10081	10103	10166	10111	6262
45°	8542	8627	8645	8632	7533	6583
55°	6628	6750	5928	5755	5758	5914
65°	4305	4340	3769	3099	2685	4244
75°	1813	1589	1205	810	788	1945
85°	162	115	118	129	130	267
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12296.8	12296.8	12296.8	12296.8	12296.8
2.5°	12236.9	12313.3	12268.4	12325.3	12368.7
5°	12205.5	12290.8	12232.4	12280.4	12292.3
7.5°	12151.6	12231.0	12177.1	12239.9	12231.0
10°	12064.8	12136.6	12099.2	12165.1	12169.6
12.5°	11954.0	12025.8	11991.4	12072.2	12070.7
15°	11832.7	11904.6	11868.6	11958.5	11964.4
17.5°	11690.4	11756.3	11729.4	11811.7	11778.8
20°	11525.8	11582.6	11569.2	11647.0	11623.1
22.5°	11323.6	11382.0	11368.5	11458.4	11422.4
25°	11103.5	11161.9	11145.5	11245.8	11212.8
27.5°	10865.5	10920.9	10919.4	11013.7	10962.8
30°	10590.0	10663.3	10667.8	10751.7	10691.8
32.5°	10317.5	10386.4	10405.8	10467.2	10416.3
35°	10012.0	10080.9	10103.4	10166.3	10110.9
37.5°	9682.6	9741.0	9781.5	9827.9	9784.5
40°	9333.8	9386.2	9416.1	9473.0	9416.1
42.5°	8944.5	9019.4	9061.3	9101.7	9008.9
45°	8541.8	8627.1	8645.1	8631.6	7532.6
47.5°	8115.0	8207.9	8218.3	7167.3	6965.2
50°	7644.9	7761.7	7760.2	6623.8	6569.9
52.5°	7155.3	7267.6	7263.1	6198.6	6162.6
55°	6628.3	6749.6	5927.6	5755.4	5758.4
57.5°	6090.8	6177.6	5318.2	5325.7	5226.9
60°	5506.8	5589.2	4803.1	4756.7	4586.0
62.5°	4921.4	4955.9	4304.6	4078.5	3753.6
65°	4304.6	4340.5	3768.6	3099.3	2684.6
67.5°	3671.2	3707.2	3127.7	2305.7	2274.3
70°	3033.4	2739.9	2373.1	1921.0	1935.9
72.5°	2404.6	2105.1	1551.1	1488.3	1075.0
75°	1813.2	1588.6	1205.3	810.0	787.5
77.5°	1262.2	1094.5	645.3	552.5	516.5
80°	783.1	549.5	386.3	342.9	329.4
82.5°	396.8	315.9	209.6	209.6	209.6
85°	161.7	115.3	118.3	128.8	130.3
87.5°	34.4	46.4	56.9	58.4	56.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)