

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-CLI-UNV-L735-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 (P23766)
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-CLI-UNV-L735-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

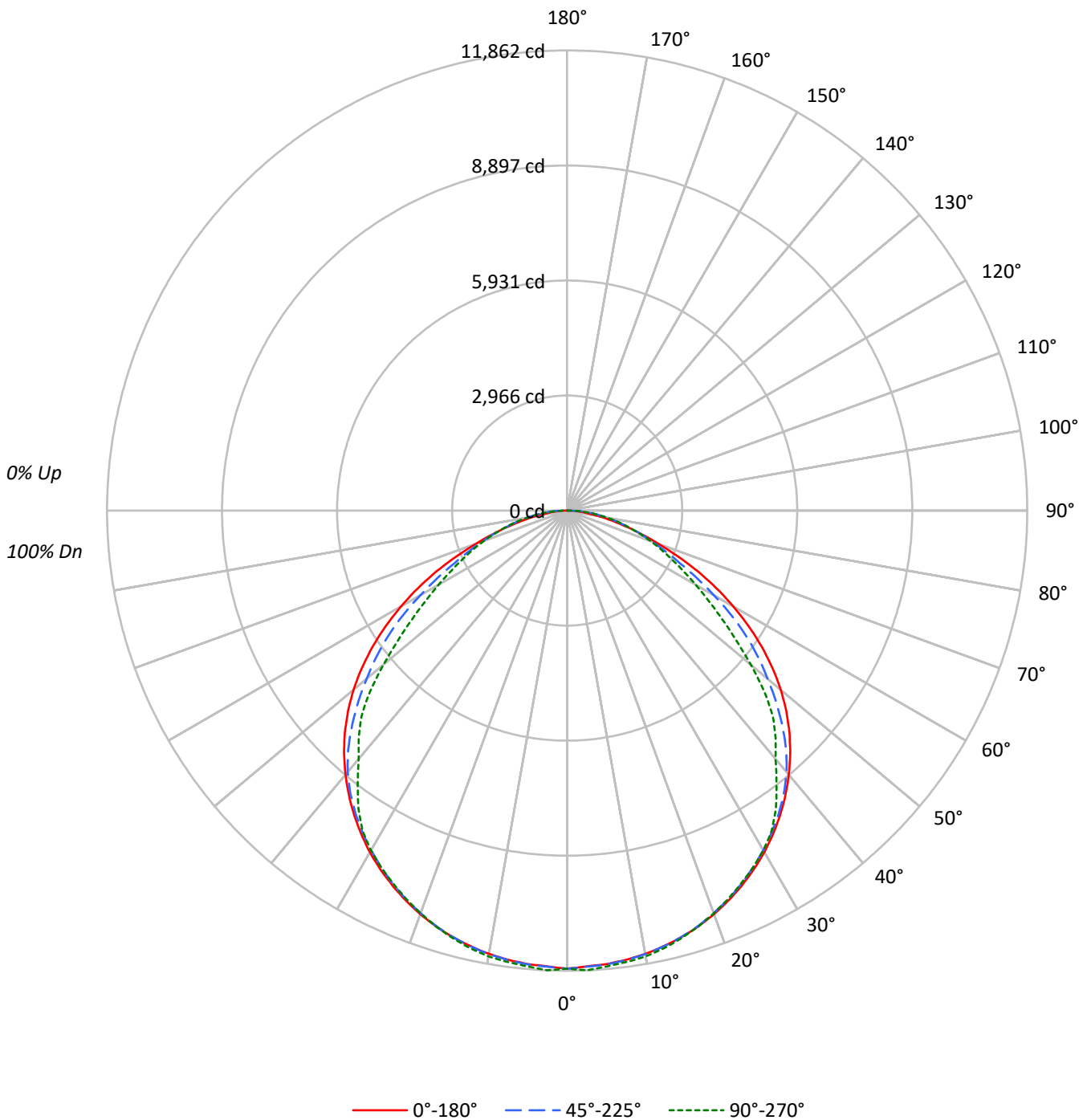
Lumens per Lamp: N/A
Luminaire Lumens: 31724.0 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15887	15887	15887
5°	15845	15856	15927
10°	15854	15861	15945
15°	15855	15853	15891
20°	15851	15815	15819
25°	15827	15768	15749
30°	15801	15707	15716
35°	15728	15630	15409
40°	15616	15456	14677
45°	15418	14924	14271
50°	15046	14130	12925
55°	14361	13214	11429
60°	13328	11791	10307
65°	11847	10208	9477
70°	9831	9123	8933
75°	7951	8349	8452
80°	6316	7985	7952
85°	4946	8579	8184



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1119.8	3.5
10°-20°	3221.0	10.2
20°-30°	4911.4	15.5
30°-40°	5942.1	18.7
40°-50°	6018.8	19.0
50°-60°	4974.7	15.7
60°-70°	3285.7	10.4
70°-80°	1713.3	5.4
80°-90°	537.1	1.7
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°	9252.2	29.2
0°-40°	15194.3	47.9
0°-60°	26187.9	82.5
0°-90°	31724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11808	11808	11808	11808	11808	
5°	11731	11802	11740	11791	11792	###
15°	11383	11441	11381	11417	11408	3214
25°	10661	10704	10621	10648	10609	4916
35°	9575	9588	9516	9503	9381	5989
45°	8102	8081	7843	7599	7500	6239
55°	6122	6032	5633	5086	4872	5457
65°	3721	3613	3206	2998	2977	3675
75°	1530	1556	1606	1627	1626	1666
85°	320	412	556	551	530	389
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11807.9	11807.9	11807.9	11807.9	11807.9
2.5°	11758.2	11827.7	11769.6	11820.6	11861.7
5°	11731.3	11802.2	11739.8	11790.8	11792.3
7.5°	11678.9	11749.7	11685.9	11737.0	11735.6
10°	11603.7	11670.4	11609.4	11670.4	11670.4
12.5°	11501.7	11566.9	11507.3	11564.0	11555.5
15°	11382.6	11440.7	11381.2	11416.6	11408.1
17.5°	11242.3	11294.7	11228.1	11257.9	11240.8
20°	11070.7	11118.9	11045.2	11083.5	11048.1
22.5°	10878.0	10923.3	10848.2	10876.5	10836.9
25°	10661.1	10703.6	10621.4	10648.3	10608.6
27.5°	10427.2	10465.5	10373.3	10405.9	10374.8
30°	10170.6	10189.1	10109.7	10152.2	10115.3
32.5°	9884.3	9895.6	9826.2	9864.4	9802.1
35°	9575.3	9588.0	9515.7	9503.0	9381.1
37.5°	9245.0	9250.7	9182.6	9067.8	8866.5
40°	8890.6	8887.8	8799.9	8534.8	8356.2
42.5°	8512.1	8510.7	8356.2	8054.3	7952.2
45°	8102.5	8081.2	7843.1	7599.3	7500.0
47.5°	7663.1	7640.4	7307.3	7113.1	6887.7
50°	7188.2	7148.5	6750.2	6485.1	6174.7
52.5°	6676.5	6615.5	6210.1	5782.0	5488.6
55°	6122.2	6031.5	5633.2	5086.0	4872.0
57.5°	5545.3	5410.6	5023.7	4490.7	4316.3
60°	4952.8	4802.5	4381.5	3943.5	3830.1
62.5°	4343.2	4194.4	3764.9	3434.6	3372.3
65°	3721.0	3613.2	3206.4	2998.0	2976.8
67.5°	3083.1	3044.8	2734.4	2628.1	2619.6
70°	2499.1	2492.0	2319.0	2265.2	2270.8
72.5°	1997.3	1988.8	1963.3	1936.3	1937.7
75°	1529.5	1556.4	1606.0	1627.3	1625.9
77.5°	1141.1	1196.4	1301.3	1343.8	1336.7
80°	815.1	897.3	1030.5	1070.2	1026.3
82.5°	542.9	629.4	786.7	792.4	756.9
85°	320.4	412.5	555.7	551.4	530.1
87.5°	158.8	248.1	333.1	318.9	304.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)