

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

Luminaire Equipment: Sample No. Condition Description

Summary

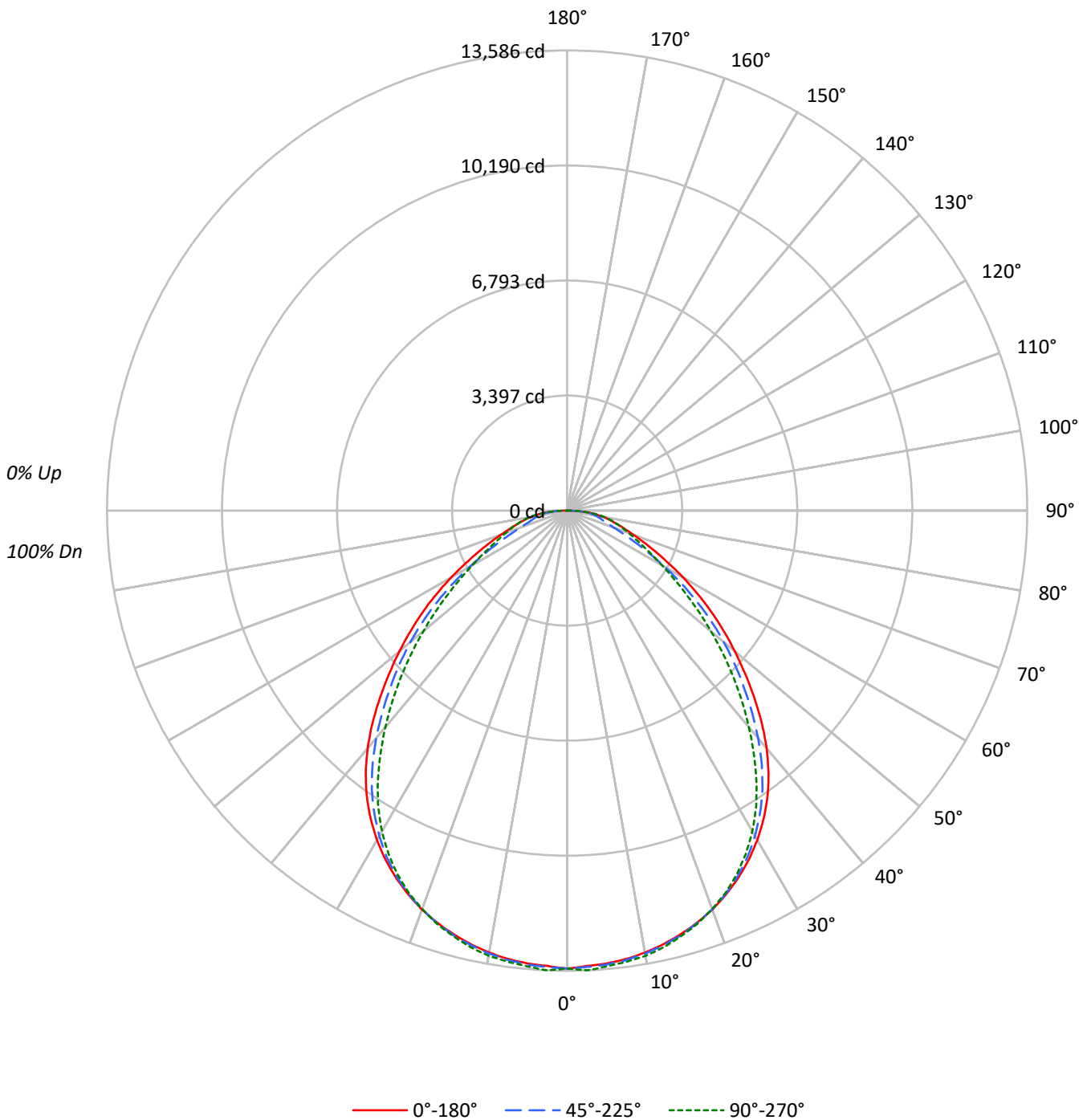
Lumens per Lamp: N/A
Luminaire Lumens: 31060.0 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	18192	18192	18192
5°	18128	18169	18243
10°	18102	18144	18235
15°	18042	18078	18120
20°	17947	17934	17921
25°	17753	17691	17592
30°	17446	17235	16984
35°	16939	16513	16005
40°	16096	15405	14666
45°	14870	14040	13190
50°	13518	12643	11602
55°	12155	10946	10030
60°	10636	8945	8703
65°	9171	7034	7855
70°	8176	5741	7570
75°	7832	5605	7911
80°	8471	6628	8814
85°	9510	7980	9604



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1281.5	4.1
10°-20°	3667.4	11.8
20°-30°	5486.1	17.7
30°-40°	6259.2	20.2
40°-50°	5697.6	18.3
50°-60°	4183.7	13.5
60°-70°	2470.3	8.0
70°-80°	1415.7	4.6
80°-90°	598.6	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°	10435.0	33.6
0°-40°	16694.2	53.7
0°-60°	26575.5	85.6
0°-90°	31060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31060.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13521	13521	13521	13521	13521	
5°	13422	13506	13452	13506	13507	###
15°	12952	13024	12978	13024	13009	3655
25°	11958	12001	11917	11912	11850	5504
35°	10313	10262	10053	9881	9744	6425
45°	7815	7769	7379	7048	6932	6023
55°	5182	4942	4666	4328	4276	4634
65°	2880	2514	2210	2364	2467	2899
75°	1507	1292	1078	1406	1522	1624
85°	616	569	517	610	622	644
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13520.9	13520.9	13520.9	13520.9	13520.9
2.5°	13458.4	13536.2	13487.4	13540.8	13586.5
5°	13421.8	13505.7	13452.3	13505.7	13507.2
7.5°	13354.7	13432.5	13380.7	13438.6	13432.5
10°	13249.5	13327.3	13280.0	13342.5	13347.1
12.5°	13115.3	13190.0	13141.3	13212.9	13200.7
15°	12952.2	13023.8	12978.1	13023.8	13008.6
17.5°	12760.0	12825.6	12766.1	12816.5	12790.5
20°	12534.4	12589.3	12525.2	12572.5	12516.1
22.5°	12264.5	12313.3	12246.2	12272.1	12214.1
25°	11958.0	12000.7	11916.8	11912.2	11849.7
27.5°	11616.4	11639.3	11532.5	11495.9	11424.3
30°	11229.1	11235.2	11093.4	11024.7	10931.7
32.5°	10794.5	10779.2	10597.8	10495.6	10381.3
35°	10312.6	10262.3	10053.4	9881.1	9743.9
37.5°	9768.3	9689.0	9438.9	9184.2	9053.1
40°	9164.4	9071.4	8771.0	8455.4	8350.1
42.5°	8507.2	8427.9	8074.1	7744.8	7641.1
45°	7814.9	7769.2	7378.8	7047.9	6932.0
47.5°	7122.6	7089.1	6707.9	6370.9	6230.6
50°	6457.8	6384.6	6040.0	5671.0	5542.9
52.5°	5812.8	5663.3	5359.9	4981.7	4887.2
55°	5181.5	4942.1	4666.1	4327.6	4275.7
57.5°	4556.3	4246.7	3978.4	3725.2	3723.7
60°	3952.4	3598.7	3324.2	3191.5	3234.2
62.5°	3386.7	3023.8	2726.5	2735.6	2813.4
65°	2880.5	2514.5	2209.5	2363.5	2467.2
67.5°	2445.9	2096.7	1787.1	2073.8	2172.9
70°	2078.4	1762.7	1459.3	1817.6	1924.4
72.5°	1768.8	1503.5	1230.6	1604.2	1712.4
75°	1506.6	1291.6	1078.1	1405.9	1521.8
77.5°	1293.1	1102.5	966.8	1216.8	1337.3
80°	1093.3	925.6	855.4	1033.9	1137.5
82.5°	866.1	750.2	709.1	840.2	893.6
85°	616.0	568.8	516.9	609.9	622.1
87.5°	338.5	350.7	289.7	350.7	352.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)