

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-AI-UNV-L750-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 (P23765)
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-AI-UNV-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

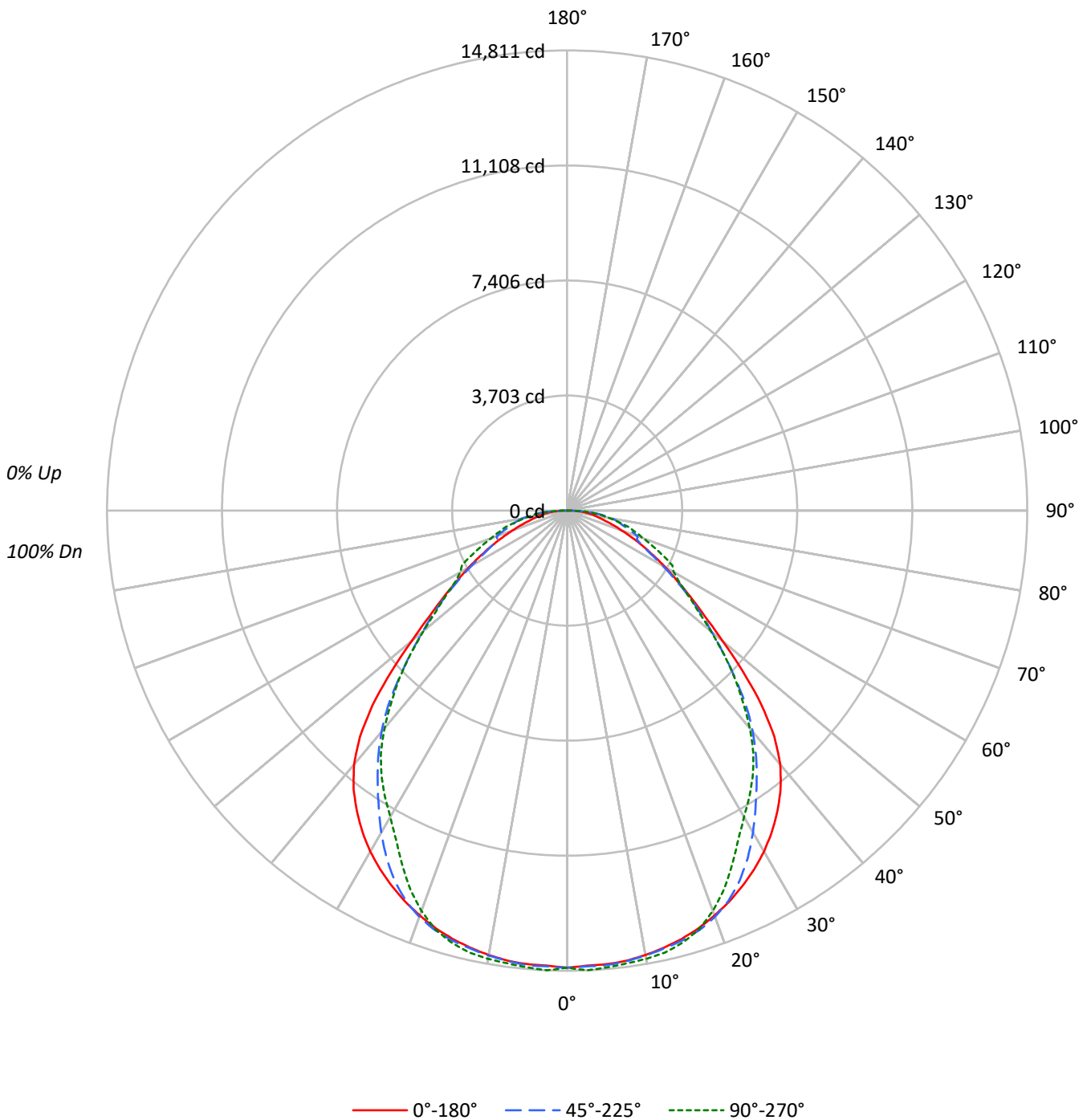
Lumens per Lamp: N/A
Luminaire Lumens: 34054.0 lumens
Efficiency: N/A
Efficacy: 161.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19795	19795	19795
5°	19794	19837	19934
10°	19843	19868	20014
15°	19874	19948	20046
20°	19854	19928	19632
25°	19804	19507	18659
30°	19687	18587	17681
35°	19391	17470	17106
40°	18742	16334	16065
45°	16846	14585	14532
50°	13663	12704	12617
55°	11345	11134	11130
60°	9823	9536	10661
65°	8513	8460	10746
70°	7340	9490	10244
75°	6582	9726	10679
80°	6842	11450	10714
85°	7767	13195	12242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1400.8	4.1
10°-20°	4045.7	11.9
20°-30°	6008.7	17.6
30°-40°	6821.5	20.0
40°-50°	6098.1	17.9
50°-60°	4216.3	12.4
60°-70°	2782.1	8.2
70°-80°	1877.0	5.5
80°-90°	803.9	2.4
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°	11455.1	33.6
0°-40°	18276.6	53.7
0°-60°	28591.0	84.0
0°-90°	34054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34054.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14712	14712	14712	14712	14712	
5°	14656	14746	14687	14747	14759	###
15°	14268	14336	14321	14401	14391	4027
25°	13340	13466	13140	12748	12568	6147
35°	11805	11557	10636	10481	10414	7362
45°	8853	8103	7665	7724	7637	6733
55°	4836	4415	4746	4680	4745	4393
65°	2674	2374	2657	3107	3375	2668
75°	1266	1593	1871	1999	2054	1383
85°	503	700	855	860	793	525
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14712.4	14712.4	14712.4	14712.4	14712.4
2.5°	14662.4	14754.0	14685.7	14749.0	14810.7
5°	14655.7	14745.7	14687.4	14747.4	14759.0
7.5°	14614.1	14697.4	14629.1	14687.4	14700.7
10°	14524.1	14622.4	14542.4	14632.4	14649.1
12.5°	14407.5	14507.5	14437.5	14560.8	14567.4
15°	14267.6	14335.9	14320.9	14400.8	14390.8
17.5°	14091.0	14169.3	14157.6	14177.6	14130.9
20°	13866.1	13954.4	13917.7	13826.1	13711.1
22.5°	13624.5	13731.1	13586.2	13354.6	13193.0
25°	13339.6	13466.2	13139.7	12748.2	12568.2
27.5°	13024.7	13138.0	12594.9	12115.1	11928.5
30°	12671.5	12719.9	11963.5	11507.0	11380.4
32.5°	12263.4	12193.4	11288.8	10987.2	10913.9
35°	11805.2	11557.0	10635.7	10480.8	10414.1
37.5°	11288.8	10834.0	9991.0	9919.3	9849.3
40°	10670.7	9999.3	9299.6	9252.9	9146.3
42.5°	9872.7	9091.3	8531.5	8476.6	8381.6
45°	8853.1	8103.4	7665.2	7723.5	7636.9
47.5°	7680.2	7112.1	6833.9	6993.8	6833.9
50°	6527.4	6145.8	6069.2	6214.2	6027.6
52.5°	5582.7	5239.5	5397.8	5422.8	5311.2
55°	4836.4	4414.9	4746.4	4679.8	4744.7
57.5°	4186.6	3715.2	4123.3	4046.7	4269.9
60°	3650.2	3120.4	3543.6	3526.9	3961.7
62.5°	3123.7	2700.6	3040.4	3285.3	3820.1
65°	2673.9	2374.0	2657.3	3107.1	3375.3
67.5°	2242.4	2129.1	2430.7	2680.6	2973.8
70°	1865.9	1924.2	2412.4	2365.7	2603.9
72.5°	1549.4	1747.6	2129.1	2137.5	2305.7
75°	1266.2	1592.7	1870.9	1999.2	2054.2
77.5°	1052.9	1444.4	1689.3	1734.3	1681.0
80°	883.0	1272.8	1477.7	1457.7	1382.8
82.5°	713.0	964.6	1164.5	1182.9	1094.6
85°	503.1	699.7	854.7	859.7	793.0
87.5°	269.9	431.5	518.1	533.1	493.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)