

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-AWG-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 (P23764)
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-AWG-UNV-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

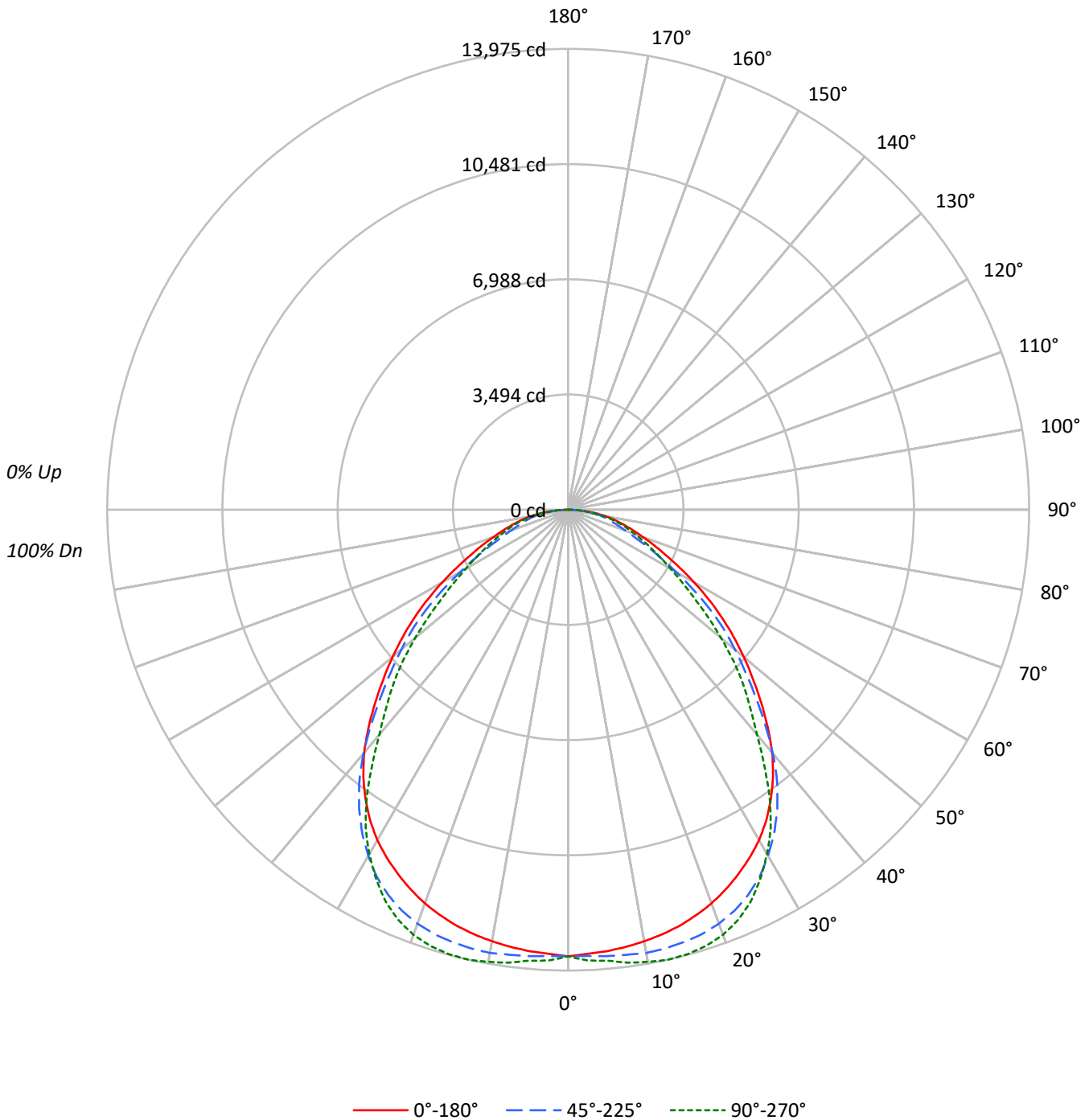
Lumens per Lamp: N/A
Luminaire Lumens: 33573.0 lumens
Efficiency: N/A
Efficacy: 158.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	85	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63					63			
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42					42			
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38					38			
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18222	18222	18222
5°	18152	18355	18541
10°	18156	18649	19025
15°	18191	18908	19440
20°	18187	19125	19639
25°	18109	19150	19460
30°	17975	18830	18731
35°	17594	18149	17489
40°	16905	16954	15635
45°	15735	15285	14293
50°	14545	13822	12665
55°	13314	12249	10929
60°	11872	10167	9651
65°	10412	8367	8868
70°	9402	7207	8444
75°	8986	7065	8420
80°	9058	7479	8215
85°	8025	6851	7171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1301.0	3.9
10°-20°	3833.9	11.4
20°-30°	5880.6	17.5
30°-40°	6763.6	20.1
40°-50°	6168.9	18.4
50°-60°	4623.6	13.8
60°-70°	2844.1	8.5
70°-80°	1629.8	4.9
80°-90°	527.7	1.6
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°	11015.4	32.8
0°-40°	17779.0	53.0
0°-60°	28571.4	85.1
0°-90°	33573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33573.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13543	13543	13543	13543	13543	
5°	13440	13576	13590	13702	13728	###
15°	13060	13350	13574	13864	13956	3687
25°	12198	12548	12899	13098	13108	5621
35°	10711	10920	11050	10868	10647	6680
45°	8270	8449	8033	7618	7512	6382
55°	5676	5465	5222	4761	4659	5071
65°	3270	2925	2628	2709	2785	3289
75°	1728	1549	1359	1556	1620	1848
85°	520	490	444	468	464	580
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13543.1	13543.1	13543.1	13543.1	13543.1
2.5°	13479.2	13575.9	13544.8	13624.2	13682.9
5°	13439.5	13575.9	13589.7	13701.9	13727.8
7.5°	13372.1	13550.0	13612.1	13810.7	13855.6
10°	13289.2	13503.4	13650.1	13864.3	13924.7
12.5°	13189.1	13437.7	13624.2	13888.4	13974.8
15°	13059.6	13349.7	13574.2	13864.3	13955.8
17.5°	12895.5	13232.3	13494.7	13779.6	13874.6
20°	12702.1	13057.8	13356.6	13648.4	13715.7
22.5°	12469.0	12826.5	13166.6	13429.1	13465.4
25°	12197.9	12548.5	12899.0	13097.6	13107.9
27.5°	11902.6	12229.0	12557.1	12664.1	12617.5
30°	11569.4	11861.2	12120.2	12142.7	12056.3
32.5°	11173.9	11436.4	11621.2	11572.8	11427.8
35°	10711.2	10920.1	11049.6	10868.3	10647.3
37.5°	10203.5	10360.6	10403.8	10010.1	9758.0
40°	9625.0	9759.7	9652.7	9105.3	8901.5
42.5°	8958.5	9113.9	8839.3	8298.9	8174.5
45°	8269.5	8449.1	8032.9	7618.5	7511.5
47.5°	7594.3	7758.4	7287.0	6953.7	6794.8
50°	6948.5	7019.3	6603.2	6226.7	6050.6
52.5°	6313.1	6242.3	5947.0	5479.0	5323.6
55°	5675.9	5465.2	5221.8	4760.7	4658.8
57.5°	5037.0	4743.4	4477.5	4123.5	4083.8
60°	4411.9	4051.0	3778.2	3567.5	3586.5
62.5°	3816.2	3448.4	3156.5	3089.2	3161.7
65°	3270.5	2925.2	2628.1	2709.3	2785.3
67.5°	2816.4	2484.8	2182.6	2389.9	2450.3
70°	2389.9	2122.2	1832.1	2099.8	2146.4
72.5°	2049.7	1821.7	1569.6	1830.4	1870.1
75°	1728.5	1548.9	1359.0	1555.8	1619.7
77.5°	1448.8	1300.3	1170.8	1286.4	1355.5
80°	1169.0	1043.0	965.3	1017.1	1060.2
82.5°	856.5	775.3	718.3	740.8	747.7
85°	519.8	490.4	443.8	468.0	464.5
87.5°	171.0	195.1	205.5	184.8	174.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)