

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-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-LD5-36HE-W-CLI-UNV-L735-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

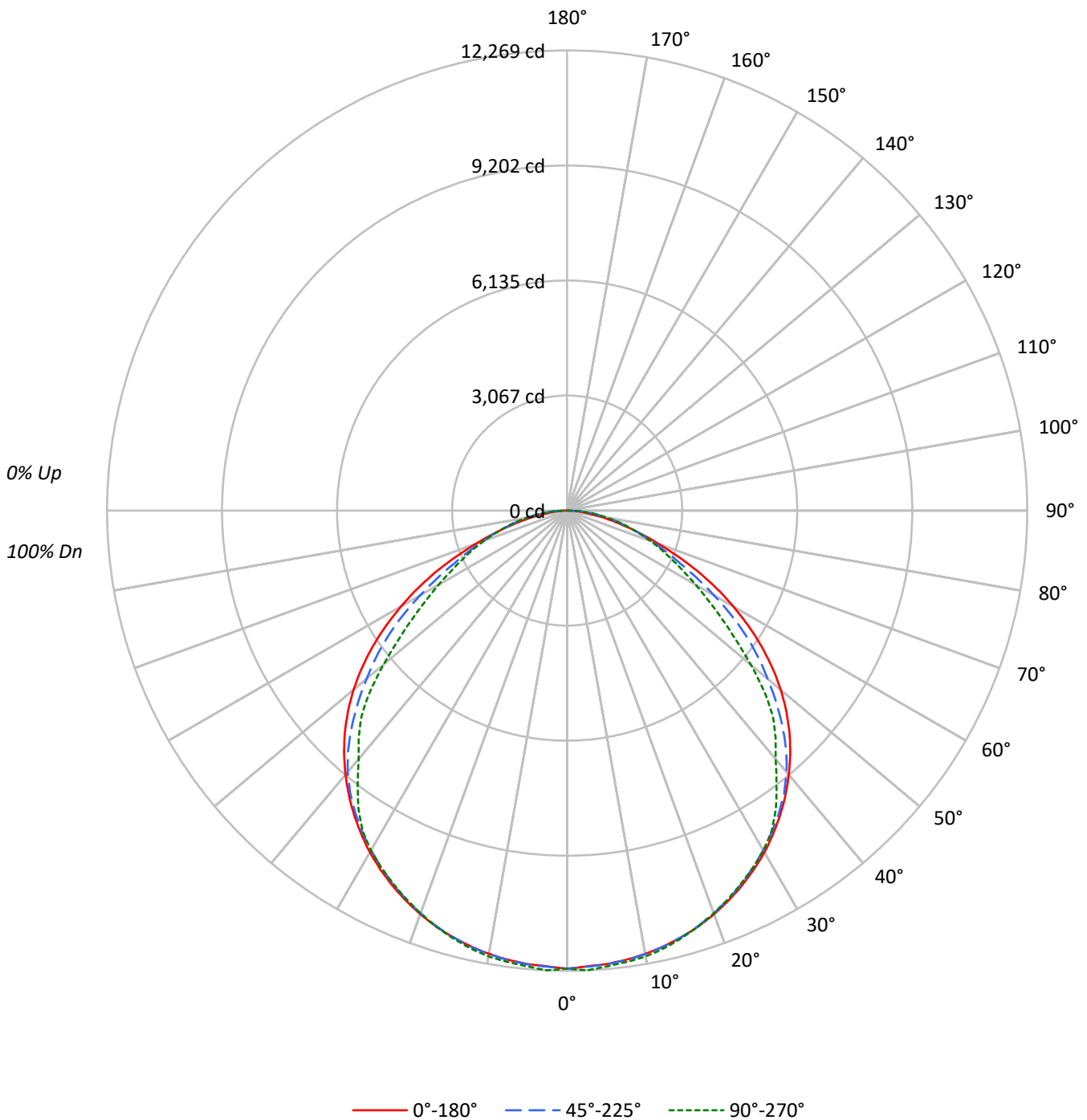
Lumens per Lamp: N/A
Luminaire Lumens: 32814.0 lumens
Efficiency: N/A
Efficacy: 155.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	16433	16433	16433
5°	16389	16401	16474
10°	16398	16406	16492
15°	16400	16398	16437
20°	16396	16358	16363
25°	16371	16310	16290
30°	16344	16246	16256
35°	16268	16167	15938
40°	16152	15987	15181
45°	15947	15437	14761
50°	15563	14615	13369
55°	14855	13668	11821
60°	13786	12196	10661
65°	12253	10559	9803
70°	10169	9436	9240
75°	8224	8636	8742
80°	6533	8259	8225
85°	5116	8874	8466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1158.3	3.5
10°-20°	3331.7	10.2
20°-30°	5080.2	15.5
30°-40°	6146.3	18.7
40°-50°	6225.6	19.0
50°-60°	5145.6	15.7
60°-70°	3398.6	10.4
70°-80°	1772.2	5.4
80°-90°	555.6	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°	9570.1	29.2
0°-40°	15716.4	47.9
0°-60°	27087.7	82.5
0°-90°	32814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12214	12214	12214	12214	12214	
5°	12134	12208	12143	12196	12197	###
15°	11774	11834	11772	11809	11800	3325
25°	11027	11071	10986	11014	10973	5085
35°	9904	9918	9843	9830	9703	6195
45°	8381	8359	8113	7860	7758	6453
55°	6333	6239	5827	5261	5039	5644
65°	3849	3737	3317	3101	3079	3801
75°	1582	1610	1661	1683	1682	1723
85°	331	427	575	570	548	402
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12213.6	12213.6	12213.6	12213.6	12213.6
2.5°	12162.2	12234.1	12174.0	12226.8	12269.3
5°	12134.4	12207.7	12143.2	12196.0	12197.4
7.5°	12080.1	12153.4	12087.5	12140.2	12138.8
10°	12002.4	12071.3	12008.3	12071.3	12071.3
12.5°	11896.9	11964.3	11902.7	11961.4	11952.6
15°	11773.7	11833.8	11772.2	11808.9	11800.1
17.5°	11628.5	11682.8	11613.9	11644.7	11627.1
20°	11451.1	11501.0	11424.7	11464.3	11427.7
22.5°	11251.7	11298.6	11220.9	11250.3	11209.2
25°	11027.4	11071.4	10986.3	11014.2	10973.1
27.5°	10785.5	10825.1	10729.7	10763.5	10731.2
30°	10520.1	10539.1	10457.0	10501.0	10462.9
32.5°	10223.9	10235.6	10163.8	10203.4	10138.9
35°	9904.3	9917.5	9842.7	9829.5	9703.4
37.5°	9562.6	9568.5	9498.1	9379.4	9171.2
40°	9196.1	9193.2	9102.3	8828.1	8643.3
42.5°	8804.6	8803.1	8643.3	8331.0	8225.5
45°	8380.9	8358.9	8112.6	7860.4	7757.7
47.5°	7926.3	7902.9	7558.3	7357.5	7124.3
50°	7435.2	7394.1	6982.1	6707.9	6386.8
52.5°	6905.9	6842.8	6423.5	5980.7	5677.2
55°	6332.6	6238.7	5826.7	5260.8	5039.4
57.5°	5735.8	5596.5	5196.3	4645.0	4464.6
60°	5122.9	4967.5	4532.1	4079.0	3961.7
62.5°	4492.5	4338.5	3894.3	3552.6	3488.1
65°	3848.8	3737.4	3316.6	3101.0	3079.0
67.5°	3189.0	3149.4	2828.3	2718.4	2709.6
70°	2584.9	2577.6	2398.7	2343.0	2348.9
72.5°	2065.9	2057.1	2030.7	2002.8	2004.3
75°	1582.0	1609.9	1661.2	1683.2	1681.7
77.5°	1180.3	1237.5	1346.0	1390.0	1382.6
80°	843.1	928.1	1065.9	1107.0	1061.5
82.5°	561.6	651.0	813.7	819.6	783.0
85°	331.4	426.7	574.8	570.4	548.4
87.5°	164.2	256.6	344.6	329.9	315.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)