

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

Luminaire Equipment: Sample No. Condition Description

Summary

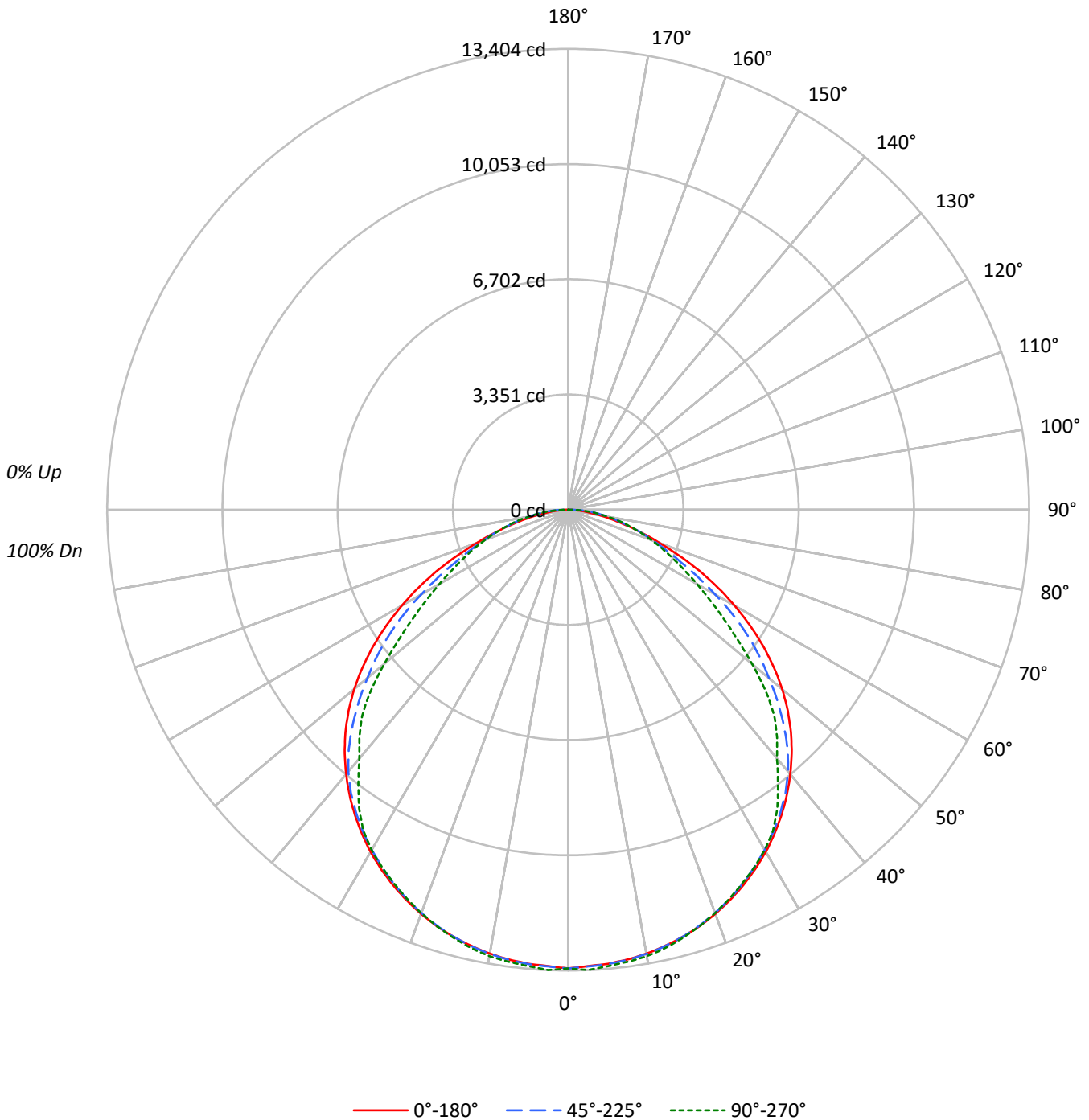
Lumens per Lamp: N/A
Luminaire Lumens: 35849.0 lumens
Efficiency: N/A
Efficacy: 169.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	17953	17953	17953
5°	17905	17918	17998
10°	17915	17924	18018
15°	17917	17915	17957
20°	17913	17871	17876
25°	17885	17819	17797
30°	17856	17749	17759
35°	17773	17662	17412
40°	17646	17466	16585
45°	17422	16864	16127
50°	17003	15967	14605
55°	16229	14933	12915
60°	15061	13324	11647
65°	13387	11535	10709
70°	11109	10309	10095
75°	8985	9435	9551
80°	7136	9023	8986
85°	5588	9693	9249



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1265.4	3.5
10°-20°	3639.8	10.2
20°-30°	5550.1	15.5
30°-40°	6714.7	18.7
40°-50°	6801.5	19.0
50°-60°	5621.6	15.7
60°-70°	3712.9	10.4
70°-80°	1936.1	5.4
80°-90°	607.0	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°	10455.3	29.2
0°-40°	17170.0	47.9
0°-60°	29593.0	82.5
0°-90°	35849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	35849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13343	13343	13343	13343	13343	
5°	13257	13337	13266	13324	13326	###
15°	12863	12928	12861	12901	12892	3632
25°	12047	12095	12002	12033	11988	5555
35°	10820	10835	10753	10739	10601	6768
45°	9156	9132	8863	8587	8475	7050
55°	6918	6816	6366	5747	5506	6166
65°	4205	4083	3623	3388	3364	4153
75°	1728	1759	1815	1839	1837	1883
85°	362	466	628	623	599	439
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13343.2	13343.2	13343.2	13343.2	13343.2
2.5°	13287.1	13365.6	13300.0	13357.6	13404.1
5°	13256.7	13336.8	13266.3	13324.0	13325.6
7.5°	13197.4	13277.5	13205.4	13263.1	13261.5
10°	13112.5	13187.8	13118.9	13187.8	13187.8
12.5°	12997.2	13070.9	13003.6	13067.7	13058.1
15°	12862.7	12928.3	12861.1	12901.1	12891.5
17.5°	12704.1	12763.3	12688.1	12721.7	12702.5
20°	12510.3	12564.7	12481.4	12524.7	12484.6
22.5°	12292.4	12343.7	12258.8	12290.8	12246.0
25°	12047.3	12095.4	12002.5	12032.9	11988.1
27.5°	11783.0	11826.3	11722.2	11759.0	11723.8
30°	11493.1	11513.9	11424.2	11472.3	11430.6
32.5°	11169.5	11182.3	11103.8	11147.1	11076.6
35°	10820.3	10834.7	10753.0	10738.6	10600.9
37.5°	10447.1	10453.5	10376.6	10246.9	10019.4
40°	10046.6	10043.4	9944.1	9644.6	9442.8
42.5°	9619.0	9617.4	9442.8	9101.6	8986.2
45°	9156.0	9132.0	8862.9	8587.4	8475.3
47.5°	8659.5	8633.8	8257.4	8038.0	7783.3
50°	8122.9	8078.0	7627.9	7328.3	6977.5
52.5°	7544.6	7475.7	7017.6	6533.8	6202.3
55°	6918.3	6815.8	6365.7	5747.3	5505.5
57.5°	6266.3	6114.2	5676.9	5074.6	4877.6
60°	5596.8	5427.0	4951.2	4456.3	4328.1
62.5°	4908.0	4739.8	4254.4	3881.2	3810.7
65°	4204.8	4083.1	3623.3	3387.9	3363.8
67.5°	3484.0	3440.7	3089.9	2969.8	2960.2
70°	2824.0	2816.0	2620.6	2559.7	2566.1
72.5°	2257.0	2247.4	2218.5	2188.1	2189.7
75°	1728.4	1758.8	1814.9	1838.9	1837.3
77.5°	1289.5	1351.9	1470.5	1518.5	1510.5
80°	921.0	1014.0	1164.5	1209.4	1159.7
82.5°	613.5	711.2	889.0	895.4	855.4
85°	362.0	466.1	627.9	623.1	599.1
87.5°	179.4	280.3	376.4	360.4	344.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)