

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-N-CLWG-UNV-L740-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-N-CLWG-UNV-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

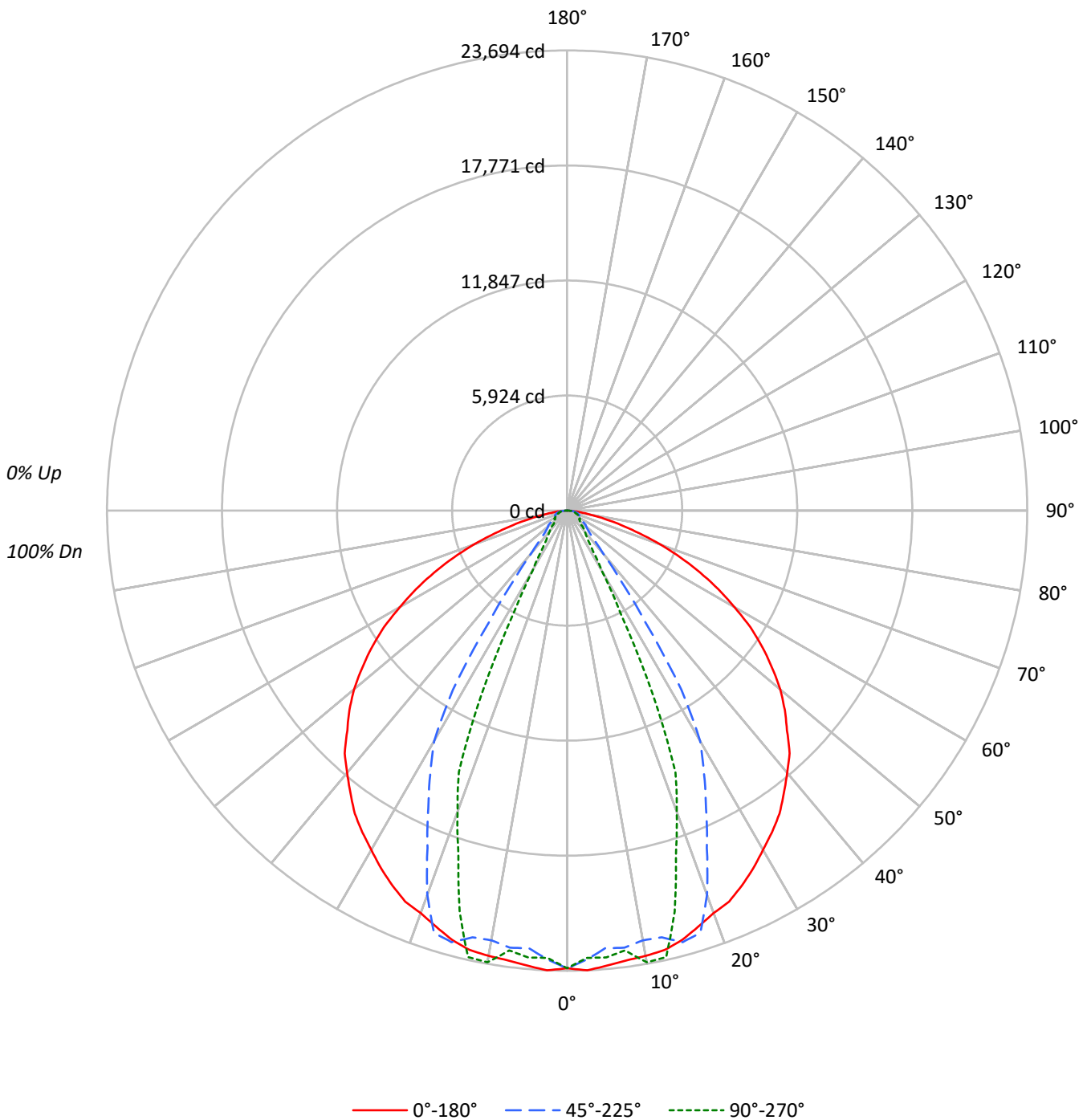
Lumens per Lamp: N/A
Luminaire Lumens: 31680.0 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 211.3
Input Voltage (V): NR
Input Current (A_{in}): 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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31707	31707	31707
5°	31759	30549	31193
10°	31805	30697	32272
15°	31876	32042	29781
20°	31575	30137	23638
25°	31620	25124	15441
30°	31336	21284	5547
35°	31304	11530	3120
40°	30949	5027	2444
45°	30471	3107	1916
50°	29996	2706	1809
55°	28817	2347	1770
60°	26736	2103	1902
65°	24032	2376	2078
70°	20155	2555	2143
75°	15068	2914	2320
80°	9463	3384	2646
85°	6302	4242	3873



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2184.2	6.9
10°-20°	6167.6	19.5
20°-30°	7552.4	23.8
30°-40°	5930.9	18.7
40°-50°	4398.2	13.9
50°-60°	2677.5	8.5
60°-70°	1603.9	5.1
70°-80°	880.0	2.8
80°-90°	285.4	0.9
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°	15904.2	50.2
0°-40°	21835.1	68.9
0°-60°	28910.8	91.3
0°-90°	31680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23565	23565	23565	23565	23565	
5°	23514	22874	22619	22868	23095	###
15°	22884	22256	23003	22074	21380	6443
25°	21299	21366	16924	13274	10401	9805
35°	19058	17336	7020	2349	1899	11892
45°	16014	11498	1633	1237	1007	12383
55°	12284	3168	1000	846	754	10932
65°	7548	934	746	702	653	7458
75°	2898	589	561	488	446	3138
85°	408	321	275	252	251	498
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23565.2	23565.2	23565.2	23565.2	23565.2
2.5°	23693.8	23374.6	23130.0	22993.4	23049.0
5°	23514.4	22874.3	22618.6	22868.0	23095.1
7.5°	23358.7	22407.4	22696.4	22718.7	22837.8
10°	23279.3	22362.9	22467.8	22961.7	23620.8
12.5°	23174.5	22466.2	22502.7	23176.1	23547.7
15°	22883.8	22256.5	23003.0	22073.9	21379.9
17.5°	22459.8	21767.4	22793.3	19555.1	18611.7
20°	22051.7	21235.3	21047.9	17419.0	16509.0
22.5°	21788.0	21154.3	18802.3	15521.1	14580.9
25°	21298.9	21365.6	16923.5	13273.9	10400.9
27.5°	20760.5	20868.5	15262.3	8852.4	5958.8
30°	20169.7	20293.6	13699.5	5231.4	3570.2
32.5°	19634.5	18935.7	10940.9	3263.7	2482.3
35°	19058.0	17336.4	7019.7	2348.9	1899.4
37.5°	18332.2	15656.1	4443.7	1858.2	1594.5
40°	17620.7	14147.4	2861.9	1586.6	1391.2
42.5°	16955.2	12903.8	2082.1	1386.5	1256.2
45°	16013.5	11498.3	1632.6	1237.2	1006.9
47.5°	15198.7	9849.8	1427.8	1046.6	868.7
50°	14330.0	7531.1	1292.8	930.7	864.0
52.5°	13299.3	4926.5	1194.3	891.0	806.8
55°	12284.4	3168.4	1000.5	846.5	754.4
57.5°	11188.6	2009.0	883.0	821.1	787.7
60°	9935.6	1354.7	781.4	778.2	706.7
62.5°	8776.2	1113.3	754.4	746.4	668.6
65°	7548.5	933.8	746.4	702.0	652.7
67.5°	6322.5	800.4	675.0	641.6	598.7
70°	5123.4	732.1	649.6	635.3	544.7
72.5°	3891.0	603.5	576.5	538.4	452.6
75°	2898.4	589.2	560.6	487.6	446.3
77.5°	1961.4	543.2	509.8	436.7	403.4
80°	1221.3	498.7	436.7	382.7	341.5
82.5°	725.8	416.1	358.9	316.0	289.0
85°	408.2	320.8	274.8	252.5	250.9
87.5°	87.3	115.9	92.1	87.3	61.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)