

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-L840-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-L840-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

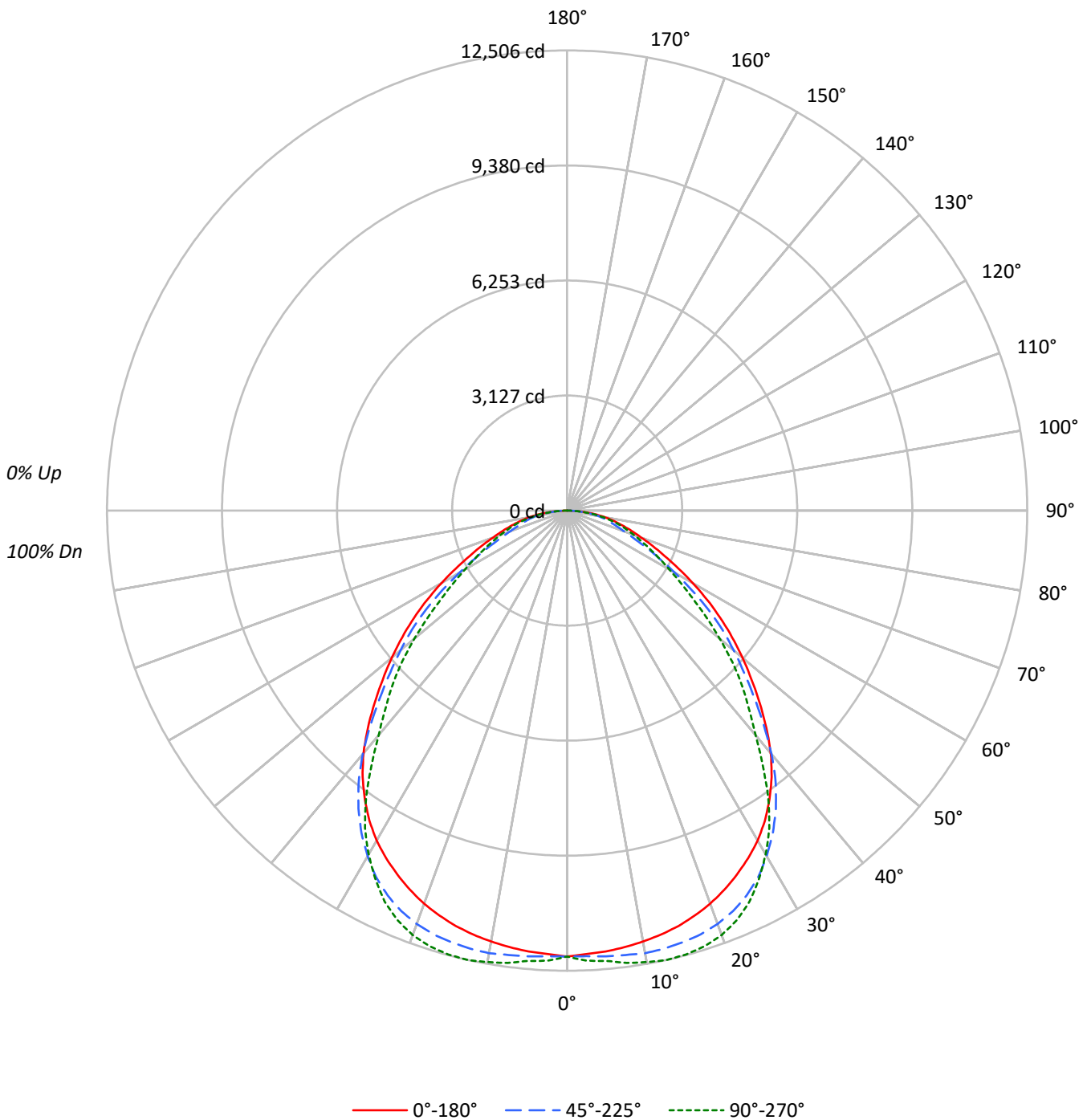
Lumens per Lamp: N/A  
Luminaire Lumens: 30044.0 lumens  
Efficiency: N/A  
Efficacy: 142.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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				
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57					55				
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50					48				
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44					42				
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40					38				
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33					31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30					28				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	16307	16307	16307
5°	16244	16425	16592
10°	16248	16689	17025
15°	16279	16921	17396
20°	16276	17114	17574
25°	16205	17137	17414
30°	16085	16851	16762
35°	15744	16242	15650
40°	15129	15172	13991
45°	14081	13679	12790
50°	13016	12369	11334
55°	11915	10962	9780
60°	10624	9098	8637
65°	9318	7488	7935
70°	8413	6450	7556
75°	8041	6322	7535
80°	8106	6693	7352
85°	7180	6130	6417



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1164.2	3.9
10°-20°	3430.9	11.4
20°-30°	5262.5	17.5
30°-40°	6052.6	20.1
40°-50°	5520.4	18.4
50°-60°	4137.6	13.8
60°-70°	2545.1	8.5
70°-80°	1458.5	4.9
80°-90°	472.2	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°	9857.5	32.8
0°-40°	15910.2	53.0
0°-60°	25568.2	85.1
0°-90°	30044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30044.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12120	12120	12120	12120	12120	
5°	12027	12149	12161	12262	12285	###
15°	11687	11946	12147	12407	12489	3299
25°	10916	11229	11543	11721	11730	5030
35°	9585	9772	9888	9726	9528	5978
45°	7400	7561	7189	6818	6722	5711
55°	5079	4891	4673	4260	4169	4538
65°	2927	2618	2352	2424	2492	2943
75°	1547	1386	1216	1392	1450	1654
85°	465	439	397	419	416	519
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12119.5	12119.5	12119.5	12119.5	12119.5
2.5°	12062.3	12148.9	12121.0	12192.1	12244.7
5°	12026.8	12148.9	12161.2	12261.7	12284.8
7.5°	11966.5	12125.7	12181.3	12359.0	12399.2
10°	11892.3	12084.0	12215.3	12406.9	12461.0
12.5°	11802.7	12025.2	12192.1	12428.6	12505.8
15°	11686.8	11946.4	12147.3	12406.9	12488.8
17.5°	11540.0	11841.4	12076.2	12331.2	12416.2
20°	11367.0	11685.3	11952.6	12213.8	12274.0
22.5°	11158.3	11478.2	11782.6	12017.5	12050.0
25°	10915.7	11229.4	11543.1	11720.8	11730.1
27.5°	10651.5	10943.6	11237.2	11333.0	11291.2
30°	10353.3	10614.4	10846.2	10866.3	10789.0
32.5°	9999.4	10234.3	10399.6	10356.4	10226.6
35°	9585.3	9772.2	9888.1	9725.9	9528.1
37.5°	9131.0	9271.6	9310.2	8957.9	8732.3
40°	8613.3	8733.8	8638.0	8148.2	7965.8
42.5°	8016.8	8155.9	7910.2	7426.5	7315.3
45°	7400.3	7561.0	7188.6	6817.7	6721.9
47.5°	6796.1	6942.9	6521.0	6222.8	6080.6
50°	6218.1	6281.5	5909.1	5572.2	5414.6
52.5°	5649.5	5586.1	5321.9	4903.1	4764.0
55°	5079.3	4890.8	4672.9	4260.3	4169.1
57.5°	4507.5	4244.8	4006.9	3690.1	3654.5
60°	3948.1	3625.2	3381.0	3192.5	3209.5
62.5°	3415.0	3085.9	2824.7	2764.5	2829.4
65°	2926.7	2617.7	2351.9	2424.5	2492.5
67.5°	2520.3	2223.6	1953.2	2138.6	2192.7
70°	2138.6	1899.1	1639.5	1879.0	1920.8
72.5°	1834.2	1630.3	1404.6	1638.0	1673.5
75°	1546.8	1386.1	1216.1	1392.3	1449.5
77.5°	1296.5	1163.6	1047.7	1151.2	1213.0
80°	1046.1	933.3	863.8	910.2	948.8
82.5°	766.5	693.8	642.8	662.9	669.1
85°	465.1	438.9	397.1	418.8	415.7
87.5°	153.0	174.6	183.9	165.3	156.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)