

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-WG-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 (P33336)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-36HE-W-WG-UNV-L750-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

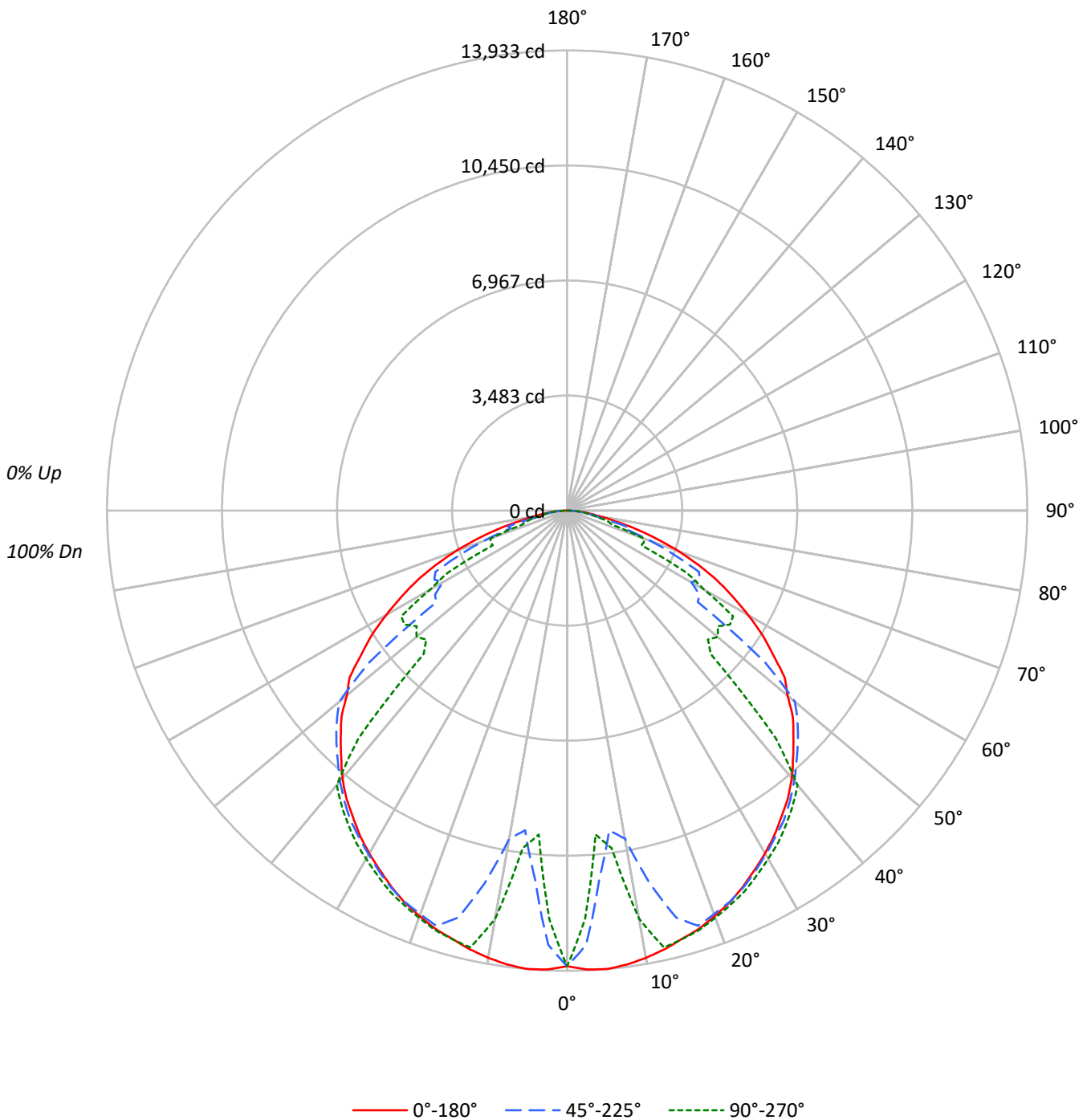
Lumens per Lamp: N/A  
Luminaire Lumens: 36544.0 lumens  
Efficiency: N/A  
Efficacy: 172.9 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

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

	0°	45°	90°
0°	18560	18560	18560
5°	18818	15118	13295
10°	18785	13787	17147
15°	18702	17769	18718
20°	18702	18617	18783
25°	18669	18711	18882
30°	18615	18676	18917
35°	18585	18791	19011
40°	18588	18790	19060
45°	18442	18803	11685
50°	18233	18841	12454
55°	17849	11329	14115
60°	17026	11678	12925
65°	15954	14021	7908
70°	14087	10622	9694
75°	11224	9655	6723
80°	7732	6978	5776
85°	7410	6442	6112



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1103.1	3.0
10°-20°	3455.7	9.5
20°-30°	5685.4	15.6
30°-40°	7148.6	19.6
40°-50°	7011.0	19.2
50°-60°	5808.9	15.9
60°-70°	4097.2	11.2
70°-80°	1787.6	4.9
80°-90°	446.6	1.2
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°	10244.1	28.0
0°-40°	17392.7	47.6
0°-60°	30212.6	82.7
0°-90°	36544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	36544.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13794	13794	13794	13794	13794	
5°	13933	12968	11193	10149	9844	###
15°	13426	9324	12757	13479	13438	3797
25°	12575	11506	12603	12687	12719	5796
35°	11315	11308	11440	11516	11574	7089
45°	9692	9722	9882	8752	6141	7481
55°	7609	7858	4830	5491	6017	6808
65°	5011	5306	4404	3388	2484	4927
75°	2159	2116	1857	1214	1293	2315
85°	480	427	417	399	396	498
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13794.2	13794.2	13794.2	13794.2	13794.2
2.5°	13908.0	13619.3	13160.8	12583.5	12379.0
5°	13932.7	12967.8	11193.0	10148.9	9843.8
7.5°	13861.8	11785.2	9758.0	9977.4	10300.7
10°	13749.6	10746.0	10091.2	11872.6	12550.5
12.5°	13606.1	9822.3	11560.8	13411.5	13546.8
15°	13426.3	9324.2	12756.7	13479.1	13437.9
17.5°	13274.6	9616.2	13185.5	13343.9	13314.2
20°	13061.8	10198.4	13002.4	13129.5	13117.9
22.5°	12847.4	10887.9	12829.3	12920.0	12920.0
25°	12575.2	11506.4	12603.3	12687.4	12718.7
27.5°	12276.7	11862.7	12321.2	12390.5	12446.6
30°	11981.4	11913.8	12021.0	12110.1	12176.1
32.5°	11669.7	11643.3	11727.4	11821.5	11905.6
35°	11315.1	11308.5	11440.4	11516.3	11574.0
37.5°	10981.9	10958.8	11080.9	11186.4	11231.0
40°	10582.7	10582.7	10698.2	10805.4	10851.6
42.5°	10127.5	10191.8	10280.9	10391.4	9358.9
45°	9692.0	9721.7	9881.7	8751.9	6140.8
47.5°	9273.1	9311.0	9462.8	5626.2	5779.6
50°	8710.6	8882.2	9000.9	5609.7	5949.5
52.5°	8299.9	8374.1	7556.0	5553.6	5745.0
55°	7608.8	7857.9	4829.5	5490.9	6017.1
57.5°	7018.3	7199.8	4748.7	5626.2	5952.8
60°	6327.2	6604.3	4339.6	5428.3	4803.1
62.5°	5664.1	5928.0	4531.0	4272.0	4067.5
65°	5011.0	5306.2	4404.0	3387.9	2484.0
67.5°	4295.1	4019.7	3513.3	2386.7	2512.1
70°	3580.9	2807.3	2700.1	2668.8	2464.2
72.5°	2846.9	2048.6	1792.9	2002.4	1433.4
75°	2159.1	2116.2	1857.3	1214.0	1293.2
77.5°	1497.7	1527.4	994.6	1184.3	983.1
80°	997.9	864.3	900.6	755.4	745.5
82.5°	691.1	706.0	592.1	574.0	582.2
85°	480.0	427.2	417.3	399.2	395.9
87.5°	160.0	186.4	173.2	156.7	166.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)