

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-CL-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 (P23768)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-36HE-N-CL-UNV-L740-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

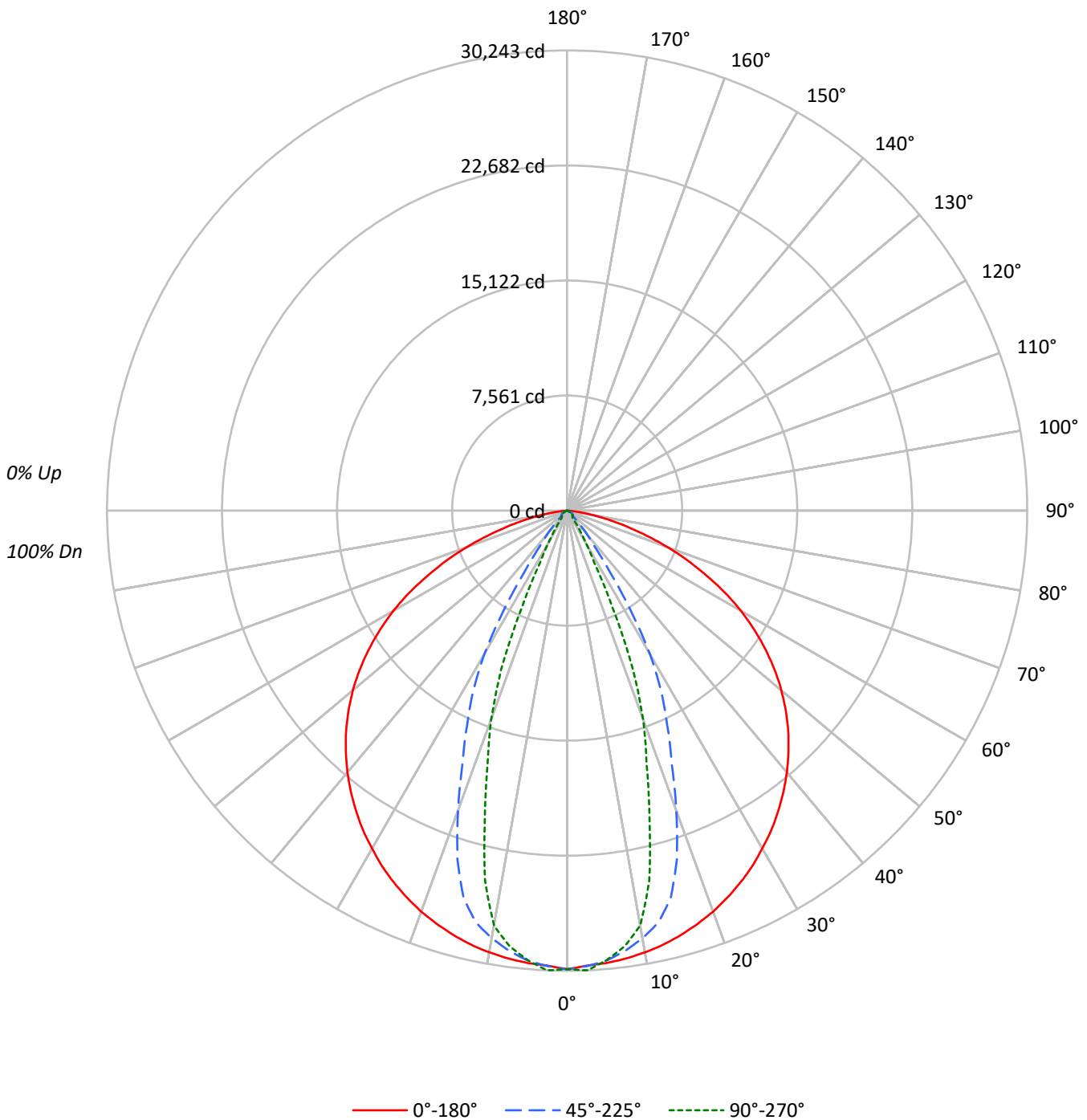
Lumens per Lamp: N/A  
Luminaire Lumens: 32237.0 lumens  
Efficiency: N/A  
Efficacy: 152.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90				90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81				81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73				73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66				66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60				60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55				55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51				51
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47				47
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44				44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41				41

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

	0°	45°	90°
0°	40556	40556	40556
5°	40307	40097	40067
10°	40280	38988	37838
15°	40234	36663	29093
20°	40156	30003	20868
25°	40030	23116	10605
30°	39840	16871	3858
35°	39698	7748	1343
40°	39454	3517	927
45°	39103	1312	939
50°	38479	952	988
55°	37340	1002	753
60°	35484	1071	664
65°	32180	815	540
70°	27591	589	498
75°	21089	521	473
80°	13195	490	514
85°	4167	571	690



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2806.2	8.7
10°-20°	7069.2	21.9
20°-30°	7698.6	23.9
30°-40°	5759.0	17.9
40°-50°	4140.8	12.8
50°-60°	2543.1	7.9
60°-70°	1463.3	4.5
70°-80°	653.1	2.0
80°-90°	103.6	0.3
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°	17574.0	54.5
0°-40°	23333.0	72.4
0°-60°	30016.9	93.1
0°-90°	32237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32237.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	30142	30142	30142	30142	30142	
5°	29843	29984	29687	29715	29666	###
15°	28884	28330	26320	22604	20886	8153
25°	26964	25029	15571	9990	7143	12429
35°	24169	17334	4717	1387	818	15118
45°	20550	9739	690	510	494	15831
55°	15918	2024	427	413	321	14192
65°	10108	222	256	213	170	10005
75°	4057	134	100	103	91	4402
85°	270	26	37	48	45	538
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	30142.4	30142.4	30142.4	30142.4	30142.4
2.5°	29932.7	30128.6	29963.5	30111.6	30242.7
5°	29843.2	29983.6	29687.4	29715.2	29665.8
7.5°	29689.0	29722.9	29187.7	28981.0	28880.7
10°	29482.3	29391.3	28536.8	28044.7	27694.6
12.5°	29221.6	28920.8	27727.0	25970.1	24922.8
15°	28883.8	28330.1	26320.3	22604.5	20886.2
17.5°	28481.2	27713.1	23991.2	18839.4	17352.5
20°	28044.7	27031.3	20954.1	16018.3	14574.6
22.5°	27529.5	26159.9	17958.7	13322.1	11340.1
25°	26963.5	25029.2	15571.0	9990.4	7143.1
27.5°	26352.7	23537.7	13360.7	6126.6	3862.3
30°	25643.1	21722.2	10858.8	3438.1	2483.3
32.5°	24950.6	19606.0	7757.0	2290.5	1587.2
35°	24168.6	17334.0	4716.8	1386.7	817.5
37.5°	23340.3	15268.7	2952.2	754.3	564.5
40°	22462.6	13309.8	2002.1	535.2	527.5
42.5°	21524.8	11537.5	1254.0	509.0	526.0
45°	20550.0	9739.0	689.5	510.5	493.6
47.5°	19491.9	7786.3	481.2	482.8	481.2
50°	18382.9	5585.2	455.0	476.6	472.0
52.5°	17187.5	3467.4	456.6	465.8	418.0
55°	15918.0	2023.7	427.3	413.4	320.8
57.5°	14583.8	1261.7	418.0	340.9	288.4
60°	13186.4	666.3	398.0	306.9	246.8
62.5°	11697.9	328.5	319.3	262.2	202.1
65°	10107.6	222.1	256.0	212.9	169.7
67.5°	8571.4	200.5	192.8	174.3	148.1
70°	7013.5	183.6	149.6	152.7	126.5
72.5°	5484.9	166.6	120.3	131.1	106.4
75°	4056.6	134.2	100.3	103.3	91.0
77.5°	2822.7	104.9	78.7	87.9	84.8
80°	1702.9	66.3	63.2	72.5	66.3
82.5°	825.2	43.2	49.4	57.1	52.4
85°	269.9	26.2	37.0	47.8	44.7
87.5°	33.9	15.4	30.8	41.6	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)