

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-CLI-UNV-L735-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 (P23769)  
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-CLI-UNV-L735-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

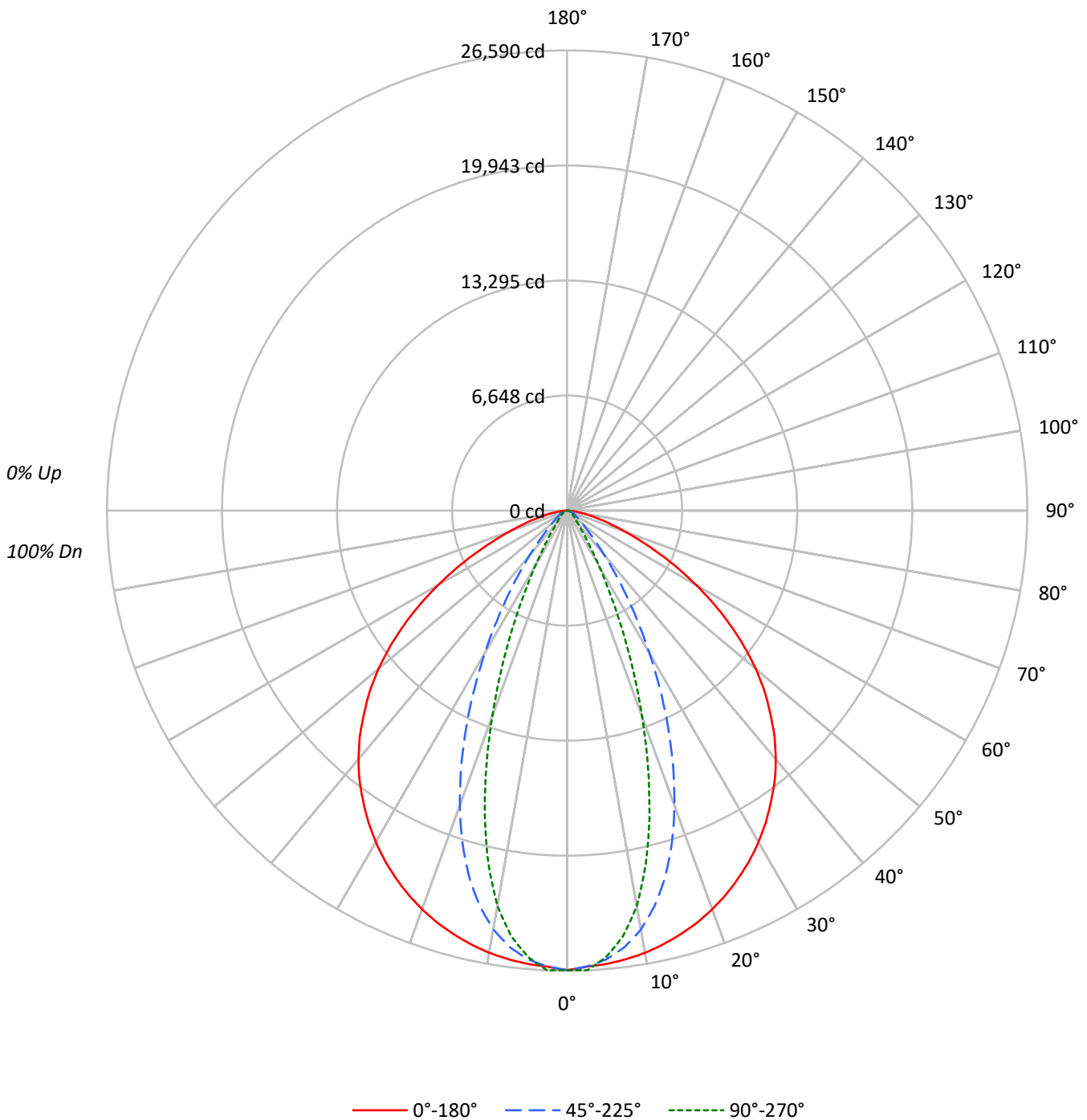
Lumens per Lamp: N/A  
Luminaire Lumens: 29070.0 lumens  
Efficiency: N/A  
Efficacy: 137.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	35727	35727	35727
5°	35512	35159	34974
10°	35453	33567	31675
15°	35310	30512	25581
20°	35098	25963	18131
25°	34784	20472	10955
30°	34362	14776	5630
35°	33742	9660	2812
40°	32941	5802	1641
45°	31573	3465	1227
50°	29779	2266	1030
55°	26951	1719	899
60°	23161	1464	820
65°	18630	1336	775
70°	14036	1430	770
75°	10324	1359	792
80°	7553	1354	867
85°	5656	1641	1122



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2445.4	8.4
10°-20°	6083.7	20.9
20°-30°	6738.6	23.2
30°-40°	5398.8	18.6
40°-50°	3854.0	13.3
50°-60°	2475.5	8.5
60°-70°	1341.6	4.6
70°-80°	573.4	2.0
80°-90°	159.0	0.5
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°	15267.7	52.5
0°-40°	20666.5	71.1
0°-60°	26996.0	92.9
0°-90°	29070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29070.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26553	26553	26553	26553	26553	
5°	26293	26391	26032	25949	25895	###
15°	25349	24556	21904	19358	18365	7152
25°	23430	20660	13790	8984	7379	10794
35°	20542	14858	5881	2372	1712	12844
45°	16593	8578	1821	775	645	12789
55°	11489	3835	733	450	383	10239
65°	5852	1575	420	290	243	5860
75°	1986	576	262	182	152	2207
85°	366	152	106	88	73	448
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	26553.3	26553.3	26553.3	26553.3	26553.3
2.5°	26378.5	26543.6	26365.9	26476.4	26589.7
5°	26293.2	26391.1	26031.7	25949.2	25894.6
7.5°	26145.0	26117.0	25441.5	25003.7	24792.5
10°	25949.2	25722.6	24568.8	23606.5	23184.2
12.5°	25669.4	25202.3	23387.0	21697.5	20981.4
15°	25349.2	24556.2	21904.5	19357.7	18364.7
17.5°	24966.0	23800.9	20132.5	16848.6	15538.2
20°	24512.8	22889.1	18132.5	14182.9	12662.7
22.5°	24006.5	21837.3	15991.3	11525.7	9894.9
25°	23430.3	20659.7	13789.9	8984.4	7378.9
27.5°	22808.0	19352.1	11601.2	6713.2	5248.9
30°	22117.1	17936.7	9510.3	4840.5	3623.7
32.5°	21363.2	16431.9	7567.7	3404.1	2478.3
35°	20542.3	14858.5	5881.0	2372.0	1711.9
37.5°	19701.7	13252.9	4441.9	1676.9	1227.9
40°	18754.9	11652.9	3303.4	1227.9	934.2
42.5°	17738.1	10083.7	2444.7	945.4	756.6
45°	16592.7	8577.5	1820.9	774.8	644.7
47.5°	15482.2	7173.3	1383.2	660.1	560.8
50°	14226.3	5906.2	1082.5	576.2	492.3
52.5°	12893.5	4791.5	878.3	507.7	433.6
55°	11489.3	3834.9	732.9	450.3	383.2
57.5°	10066.9	3037.7	626.6	401.4	341.3
60°	8606.8	2429.3	544.0	359.4	304.9
62.5°	7181.7	1942.6	475.5	323.1	272.7
65°	5851.6	1574.8	419.6	289.5	243.4
67.5°	4622.3	1244.7	391.6	260.1	219.6
70°	3567.8	969.2	363.6	232.2	195.8
72.5°	2703.4	744.0	321.7	207.0	173.4
75°	1986.0	576.2	261.5	181.8	152.4
77.5°	1421.0	443.3	212.6	158.0	131.5
80°	974.8	330.1	174.8	135.7	111.9
82.5°	633.6	233.6	141.3	111.9	92.3
85°	366.4	152.4	106.3	88.1	72.7
87.5°	158.0	83.9	72.7	65.7	55.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)