

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-LD5-36SE-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-LD5-36SE-N-CLI-UNV-L735-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

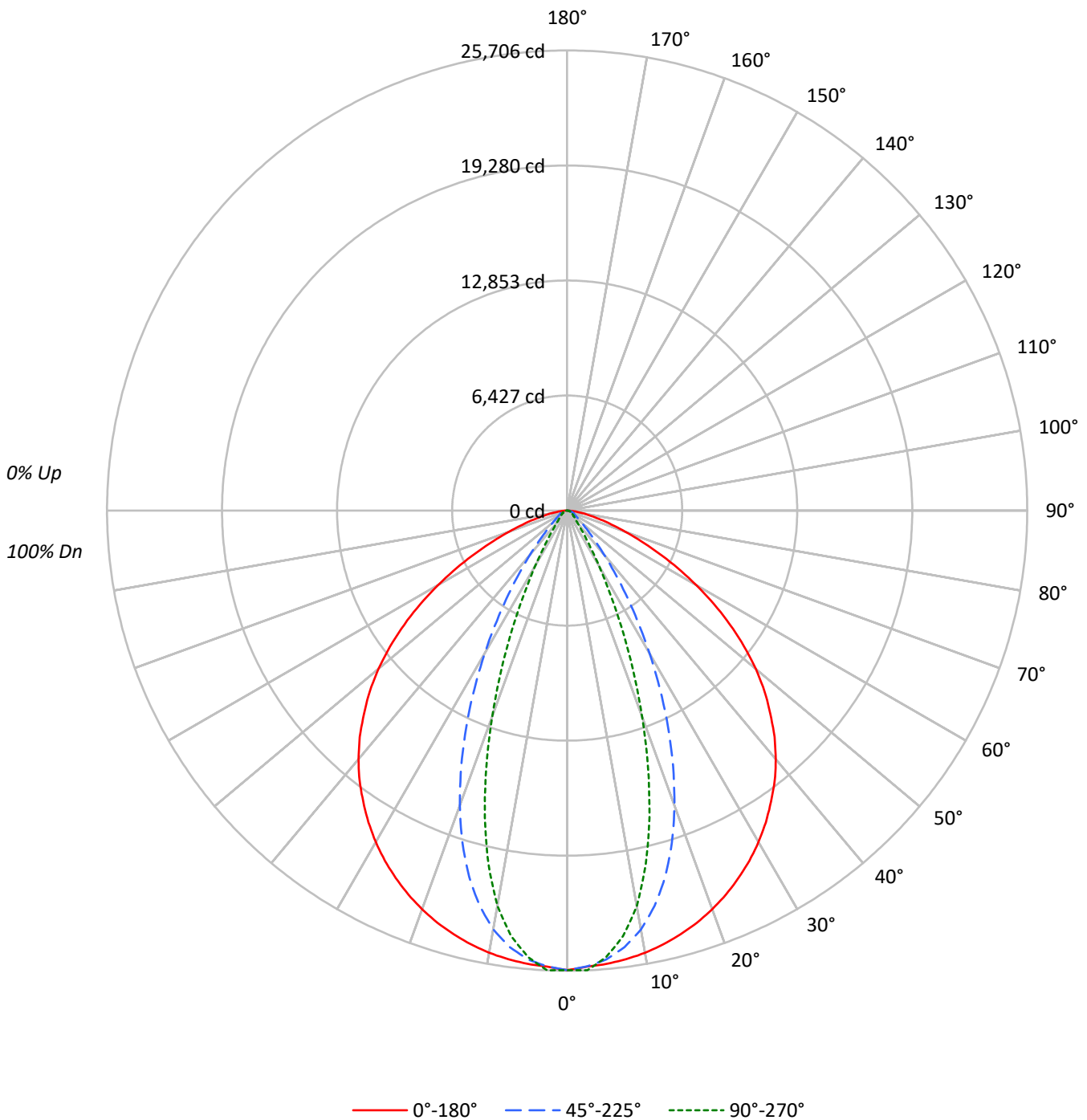
Lumens per Lamp: N/A  
Luminaire Lumens: 28104.0 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 232  
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°	34540	34540	34540
5°	34332	33991	33812
10°	34275	32451	30623
15°	34137	29498	24731
20°	33932	25100	17528
25°	33628	19792	10591
30°	33220	14285	5443
35°	32620	9339	2718
40°	31847	5609	1586
45°	30524	3350	1186
50°	28789	2191	996
55°	26056	1662	869
60°	22391	1415	793
65°	18011	1291	749
70°	13569	1383	745
75°	9981	1314	766
80°	7302	1309	838
85°	5470	1587	1085



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2364.1	8.4
10°-20°	5881.5	20.9
20°-30°	6514.7	23.2
30°-40°	5219.4	18.6
40°-50°	3726.0	13.3
50°-60°	2393.3	8.5
60°-70°	1297.0	4.6
70°-80°	554.3	2.0
80°-90°	153.7	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°	14760.3	52.5
0°-40°	19979.7	71.1
0°-60°	26098.9	92.9
0°-90°	28104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28104.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25671	25671	25671	25671	25671	
5°	25420	25514	25167	25087	25034	###
15°	24507	23740	21177	18714	17754	6915
25°	22652	19973	13332	8686	7134	10435
35°	19860	14365	5686	2293	1655	12417
45°	16041	8292	1760	749	623	12364
55°	11108	3708	708	435	370	9899
65°	5657	1522	406	280	235	5665
75°	1920	557	253	176	147	2133
85°	354	147	103	85	70	433
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	25671.0	25671.0	25671.0	25671.0	25671.0
2.5°	25502.0	25661.5	25489.8	25596.6	25706.1
5°	25419.5	25514.1	25166.6	25086.9	25034.1
7.5°	25276.2	25249.1	24596.1	24172.8	23968.7
10°	25086.9	24867.8	23752.3	22822.1	22413.8
12.5°	24816.4	24364.8	22609.8	20976.5	20284.2
15°	24506.8	23740.2	21176.6	18714.4	17754.4
17.5°	24136.3	23010.0	19463.5	16288.8	15021.8
20°	23698.3	22128.5	17530.0	13711.6	12241.9
22.5°	23208.8	21111.7	15459.9	11142.7	9566.1
25°	22651.7	19973.2	13331.7	8685.9	7133.7
27.5°	22050.0	18709.0	11215.7	6490.1	5074.4
30°	21382.1	17340.7	9194.3	4679.6	3503.3
32.5°	20653.3	15885.8	7316.2	3291.0	2395.9
35°	19859.6	14364.7	5685.6	2293.2	1655.0
37.5°	19047.0	12812.5	4294.3	1621.2	1187.1
40°	18131.7	11265.7	3193.7	1187.1	903.2
42.5°	17148.7	9748.6	2363.5	914.0	731.5
45°	16041.3	8292.4	1760.4	749.1	623.3
47.5°	14967.7	6934.9	1337.2	638.2	542.2
50°	13753.6	5709.9	1046.5	557.1	475.9
52.5°	12465.0	4632.3	849.1	490.8	419.2
55°	11107.5	3707.5	708.5	435.4	370.5
57.5°	9732.4	2936.8	605.7	388.1	329.9
60°	8320.8	2348.6	526.0	347.5	294.8
62.5°	6943.0	1878.1	459.7	312.3	263.7
65°	5657.2	1522.5	405.6	279.9	235.3
67.5°	4468.7	1203.4	378.6	251.5	212.3
70°	3449.2	937.0	351.5	224.4	189.3
72.5°	2613.6	719.3	311.0	200.1	167.7
75°	1920.0	557.1	252.8	175.8	147.4
77.5°	1373.7	428.6	205.5	152.8	127.1
80°	942.4	319.1	169.0	131.2	108.2
82.5°	612.5	225.8	136.6	108.2	89.2
85°	354.3	147.4	102.8	85.2	70.3
87.5°	152.8	81.1	70.3	63.5	54.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)