

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-W-CLI-UNV-L835-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 (P23766)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-36SE-W-CLI-UNV-L835-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

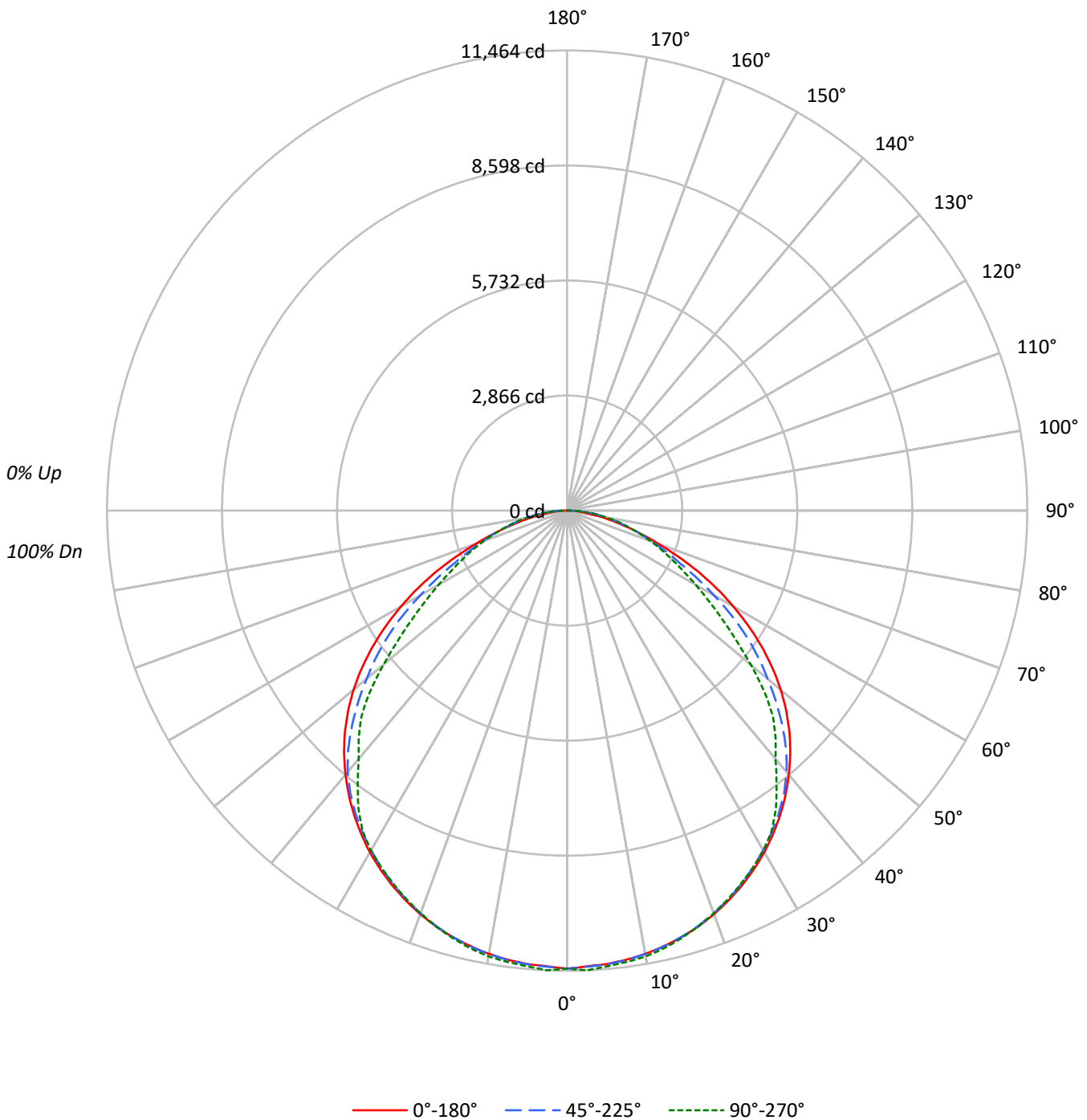
Lumens per Lamp: N/A  
Luminaire Lumens: 30660.0 lumens  
Efficiency: N/A  
Efficacy: 132.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	15354	15354	15354
5°	15313	15324	15393
10°	15322	15329	15410
15°	15324	15322	15358
20°	15320	15285	15288
25°	15296	15240	15221
30°	15271	15180	15189
35°	15200	15106	14892
40°	15092	14938	14185
45°	14900	14423	13793
50°	14542	13656	12491
55°	13880	12771	11045
60°	12881	11395	9961
65°	11449	9866	9159
70°	9502	8817	8634
75°	7685	8069	8169
80°	6103	7717	7686
85°	4780	8290	7910



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1082.2	3.5
10°-20°	3113.0	10.2
20°-30°	4746.7	15.5
30°-40°	5742.8	18.7
40°-50°	5817.0	19.0
50°-60°	4807.9	15.7
60°-70°	3175.5	10.4
70°-80°	1655.8	5.4
80°-90°	519.1	1.7
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°	8941.9	29.2
0°-40°	14684.7	47.9
0°-60°	25309.6	82.5
0°-90°	30660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30660.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11412	11412	11412	11412	11412	
5°	11338	11406	11346	11395	11397	###
15°	11001	11057	11000	11034	11026	3106
25°	10304	10345	10265	10291	10253	4751
35°	9254	9266	9197	9184	9066	5788
45°	7831	7810	7580	7344	7248	6030
55°	5917	5829	5444	4915	4709	5274
65°	3596	3492	3099	2898	2877	3552
75°	1478	1504	1552	1573	1571	1610
85°	310	399	537	533	512	376
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11411.8	11411.8	11411.8	11411.8	11411.8
2.5°	11363.9	11431.0	11374.8	11424.2	11463.9
5°	11337.8	11406.3	11346.1	11395.4	11396.8
7.5°	11287.2	11355.7	11294.0	11343.3	11342.0
10°	11214.6	11278.9	11220.0	11278.9	11278.9
12.5°	11115.9	11178.9	11121.4	11176.2	11168.0
15°	11000.8	11057.0	10999.5	11033.7	11025.5
17.5°	10865.2	10915.9	10851.5	10880.3	10863.8
20°	10699.4	10746.0	10674.8	10711.8	10677.5
22.5°	10513.1	10557.0	10484.4	10511.8	10473.4
25°	10303.5	10344.6	10265.2	10291.2	10252.8
27.5°	10077.5	10114.5	10025.4	10056.9	10026.8
30°	9829.5	9847.3	9770.6	9811.7	9776.1
32.5°	9552.8	9563.7	9496.6	9533.6	9473.3
35°	9254.1	9266.5	9196.6	9184.3	9066.4
37.5°	8934.9	8940.4	8874.6	8763.7	8569.1
40°	8592.4	8589.7	8504.8	8248.6	8076.0
42.5°	8226.7	8225.3	8076.0	7784.2	7685.5
45°	7830.7	7810.2	7580.0	7344.4	7248.5
47.5°	7406.0	7384.1	7062.2	6874.5	6656.7
50°	6947.1	6908.7	6523.8	6267.6	5967.6
52.5°	6452.5	6393.6	6001.8	5588.1	5304.5
55°	5916.9	5829.2	5444.2	4915.4	4708.6
57.5°	5359.3	5229.2	4855.2	4340.1	4171.5
60°	4786.7	4641.4	4234.6	3811.2	3701.7
62.5°	4197.6	4053.7	3638.6	3319.4	3259.2
65°	3596.2	3492.0	3098.9	2897.5	2876.9
67.5°	2979.7	2942.7	2642.7	2539.9	2531.7
70°	2415.3	2408.4	2241.3	2189.2	2194.7
72.5°	1930.3	1922.1	1897.4	1871.4	1872.7
75°	1478.2	1504.2	1552.2	1572.7	1571.4
77.5°	1102.8	1156.3	1257.6	1298.7	1291.9
80°	787.7	867.2	996.0	1034.3	991.9
82.5°	524.7	608.3	760.3	765.8	731.6
85°	309.6	398.7	537.0	532.9	512.4
87.5°	153.4	239.7	321.9	308.2	294.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)