

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-AI-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 (P23765)  
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-AI-UNV-L750-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

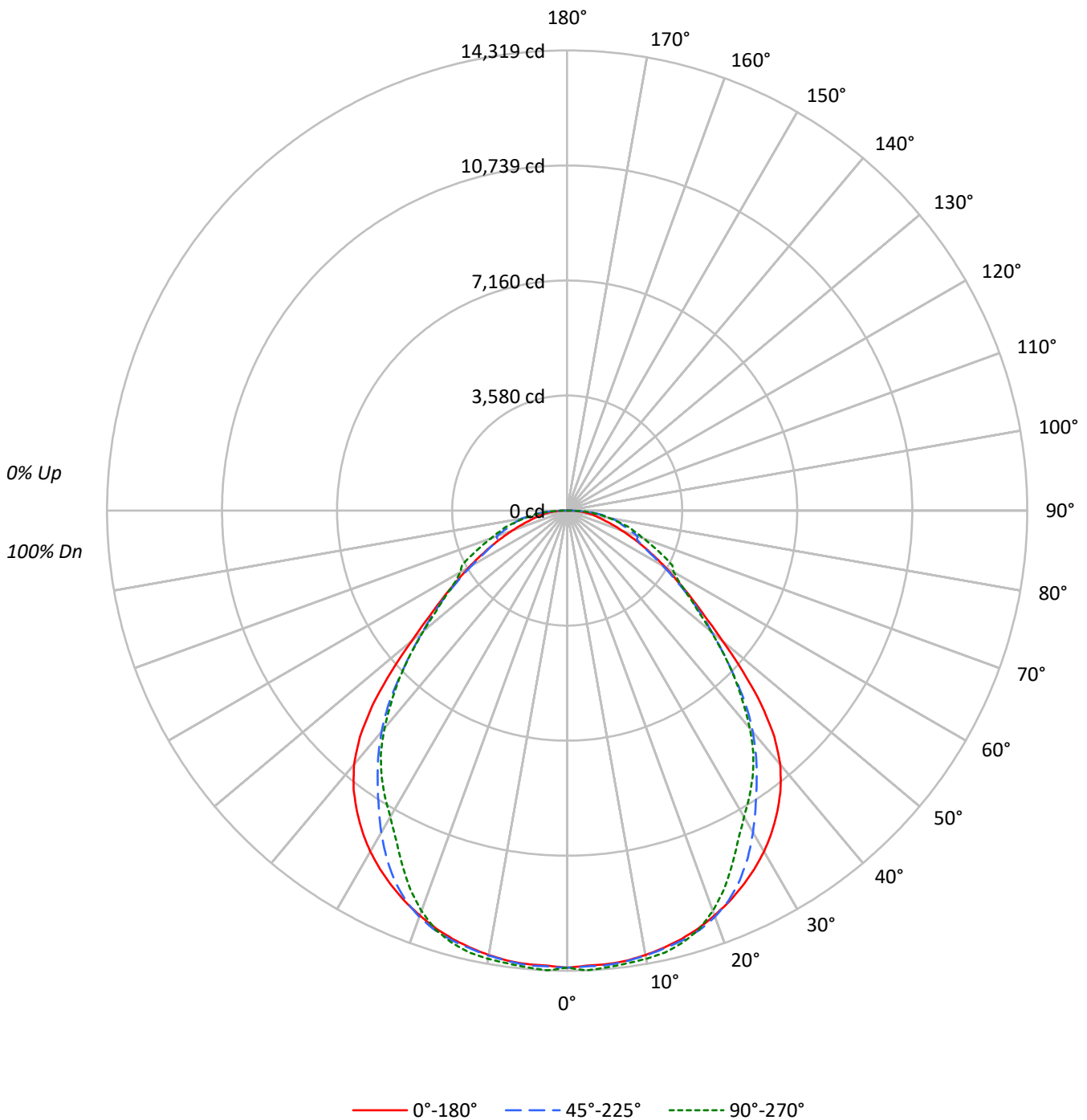
Lumens per Lamp: N/A  
Luminaire Lumens: 32923.0 lumens  
Efficiency: N/A  
Efficacy: 141.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29

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

	0°	45°	90°
0°	19138	19138	19138
5°	19137	19178	19272
10°	19184	19209	19349
15°	19214	19286	19380
20°	19195	19266	18980
25°	19146	18859	18039
30°	19033	17970	17094
35°	18746	16889	16537
40°	18120	15791	15531
45°	16286	14101	14049
50°	13209	12282	12198
55°	10968	10764	10761
60°	9496	9219	10307
65°	8230	8179	10389
70°	7096	9175	9904
75°	6364	9403	10324
80°	6615	11070	10358
85°	7509	12756	11836



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1354.3	4.1
10°-20°	3911.3	11.9
20°-30°	5809.1	17.6
30°-40°	6594.9	20.0
40°-50°	5895.6	17.9
50°-60°	4076.2	12.4
60°-70°	2689.7	8.2
70°-80°	1814.6	5.5
80°-90°	777.2	2.4
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°	11074.7	33.6
0°-40°	17669.6	53.7
0°-60°	27641.4	84.0
0°-90°	32923.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32923.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14224	14224	14224	14224	14224	
5°	14169	14256	14200	14258	14269	###
15°	13794	13860	13845	13923	13913	3894
25°	12897	13019	12703	12325	12151	5942
35°	11413	11173	10282	10133	10068	7117
45°	8559	7834	7411	7467	7383	6509
55°	4676	4268	4589	4524	4587	4247
65°	2585	2295	2569	3004	3263	2580
75°	1224	1540	1809	1933	1986	1337
85°	486	676	826	831	767	507
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14223.8	14223.8	14223.8	14223.8	14223.8
2.5°	14175.4	14264.0	14198.0	14259.2	14318.8
5°	14169.0	14256.0	14199.6	14257.6	14268.9
7.5°	14128.7	14209.3	14143.2	14199.6	14212.5
10°	14041.7	14136.8	14059.5	14146.4	14162.5
12.5°	13929.0	14025.6	13958.0	14077.2	14083.6
15°	13793.7	13859.7	13845.2	13922.6	13912.9
17.5°	13623.0	13698.7	13687.4	13706.7	13661.6
20°	13405.5	13490.9	13455.5	13366.9	13255.7
22.5°	13172.0	13275.1	13134.9	12911.1	12754.8
25°	12896.6	13019.0	12703.3	12324.8	12150.8
27.5°	12592.2	12701.7	12176.6	11712.7	11532.3
30°	12250.7	12297.4	11566.2	11124.8	11002.4
32.5°	11856.1	11788.4	10913.8	10622.3	10551.4
35°	11413.1	11173.2	10282.5	10132.7	10068.2
37.5°	10913.8	10474.1	9659.1	9589.9	9522.2
40°	10316.3	9667.2	8990.7	8945.6	8842.5
42.5°	9544.8	8789.4	8248.2	8195.0	8103.2
45°	8559.1	7834.3	7410.7	7467.0	7383.3
47.5°	7425.2	6875.9	6606.9	6761.6	6606.9
50°	6310.6	5941.7	5867.6	6007.8	5827.4
52.5°	5397.3	5065.5	5218.5	5242.7	5134.8
55°	4675.8	4268.3	4588.8	4524.3	4587.2
57.5°	4047.6	3591.8	3986.4	3912.3	4128.1
60°	3529.0	3016.8	3425.9	3409.8	3830.2
62.5°	3020.0	2610.9	2939.5	3176.2	3693.2
65°	2585.1	2295.2	2569.0	3003.9	3263.2
67.5°	2168.0	2058.4	2350.0	2591.6	2875.0
70°	1803.9	1860.3	2332.2	2287.1	2517.5
72.5°	1497.9	1689.6	2058.4	2066.5	2229.2
75°	1224.1	1539.8	1808.8	1932.8	1985.9
77.5°	1017.9	1396.4	1633.2	1676.7	1625.2
80°	853.7	1230.5	1428.7	1409.3	1336.8
82.5°	689.4	932.6	1125.9	1143.6	1058.2
85°	486.4	676.5	826.3	831.1	766.7
87.5°	260.9	417.2	500.9	515.4	476.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)