

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-CLWG-UNV-L840-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 (P33344)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-36HE-N-CLWG-UNV-L840-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

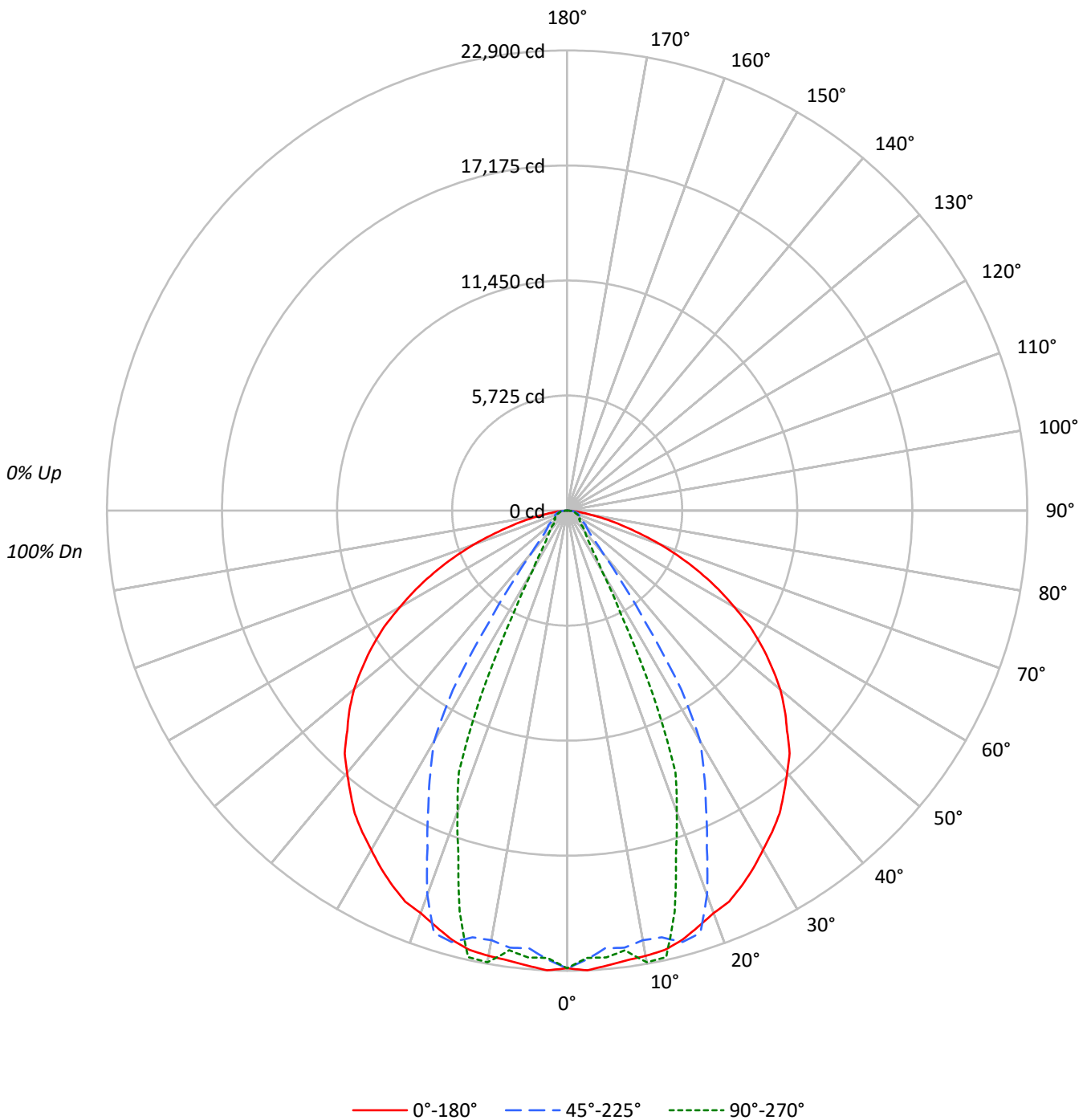
Lumens per Lamp: N/A  
Luminaire Lumens: 30618.0 lumens  
Efficiency: N/A  
Efficacy: 144.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 211.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

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

	0°	45°	90°
0°	30644	30644	30644
5°	30695	29525	30147
10°	30739	29667	31190
15°	30808	30968	28783
20°	30516	29127	22846
25°	30560	24282	14923
30°	30286	20571	5361
35°	30254	11144	3015
40°	29912	4858	2362
45°	29449	3002	1852
50°	28990	2615	1748
55°	27851	2268	1710
60°	25840	2032	1838
65°	23227	2297	2009
70°	19480	2470	2071
75°	14562	2817	2242
80°	9146	3271	2557
85°	6090	4099	3744



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2111.0	6.9
10°-20°	5960.8	19.5
20°-30°	7299.2	23.8
30°-40°	5732.1	18.7
40°-50°	4250.7	13.9
50°-60°	2587.8	8.5
60°-70°	1550.1	5.1
70°-80°	850.5	2.8
80°-90°	275.8	0.9
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°	15371.0	50.2
0°-40°	21103.1	68.9
0°-60°	27941.6	91.3
0°-90°	30618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30618.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22775	22775	22775	22775	22775	
5°	22726	22108	21860	22101	22321	###
15°	22117	21510	22232	21334	20663	6227
25°	20585	20649	16356	12829	10052	9476
35°	18419	16755	6784	2270	1836	11493
45°	15477	11113	1578	1196	973	11968
55°	11873	3062	967	818	729	10565
65°	7296	902	721	678	631	7208
75°	2801	570	542	471	431	3033
85°	394	310	266	244	242	481
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	22775.2	22775.2	22775.2	22775.2	22775.2
2.5°	22899.5	22591.0	22354.6	22222.6	22276.4
5°	22726.1	22107.5	21860.4	22101.4	22320.9
7.5°	22575.7	21656.2	21935.6	21957.1	22072.2
10°	22498.9	21613.3	21714.6	22191.9	22828.9
12.5°	22397.6	21713.0	21748.3	22399.1	22758.3
15°	22116.7	21510.4	22231.8	21333.9	20663.1
17.5°	21706.9	21037.7	22029.2	18899.5	17987.8
20°	21312.4	20523.5	20342.3	16835.0	15955.5
22.5°	21057.6	20445.2	18172.0	15000.8	14092.1
25°	20584.9	20649.3	16356.2	12828.9	10052.2
27.5°	20064.5	20168.9	14750.6	8555.7	5759.0
30°	19493.5	19613.3	13240.3	5056.0	3450.5
32.5°	18976.3	18300.9	10574.1	3154.3	2399.1
35°	18419.1	16755.2	6784.4	2270.2	1835.8
37.5°	17717.6	15131.3	4294.7	1795.9	1541.1
40°	17030.0	13673.1	2765.9	1533.4	1344.6
42.5°	16386.8	12471.3	2012.3	1340.0	1214.1
45°	15476.6	11112.8	1577.9	1195.7	973.1
47.5°	14689.2	9519.6	1379.9	1011.5	839.6
50°	13849.6	7278.6	1249.4	899.5	835.0
52.5°	12853.5	4761.3	1154.3	861.1	779.7
55°	11872.6	3062.2	967.0	818.1	729.1
57.5°	10813.5	1941.7	853.4	793.6	761.3
60°	9602.5	1309.3	755.2	752.1	683.0
62.5°	8482.0	1076.0	729.1	721.4	646.2
65°	7295.5	902.5	721.4	678.4	630.9
67.5°	6110.5	773.6	652.3	620.1	578.7
70°	4951.7	707.6	627.8	614.0	526.5
72.5°	3760.6	583.3	557.2	520.3	437.5
75°	2801.2	569.5	541.8	471.2	431.3
77.5°	1895.6	524.9	492.7	422.1	389.9
80°	1180.4	482.0	422.1	369.9	330.0
82.5°	701.5	402.2	346.9	305.4	279.4
85°	394.5	310.1	265.5	244.1	242.5
87.5°	84.4	112.0	89.0	84.4	59.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)