

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-CL-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 (P23768)  
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-CL-UNV-L750-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

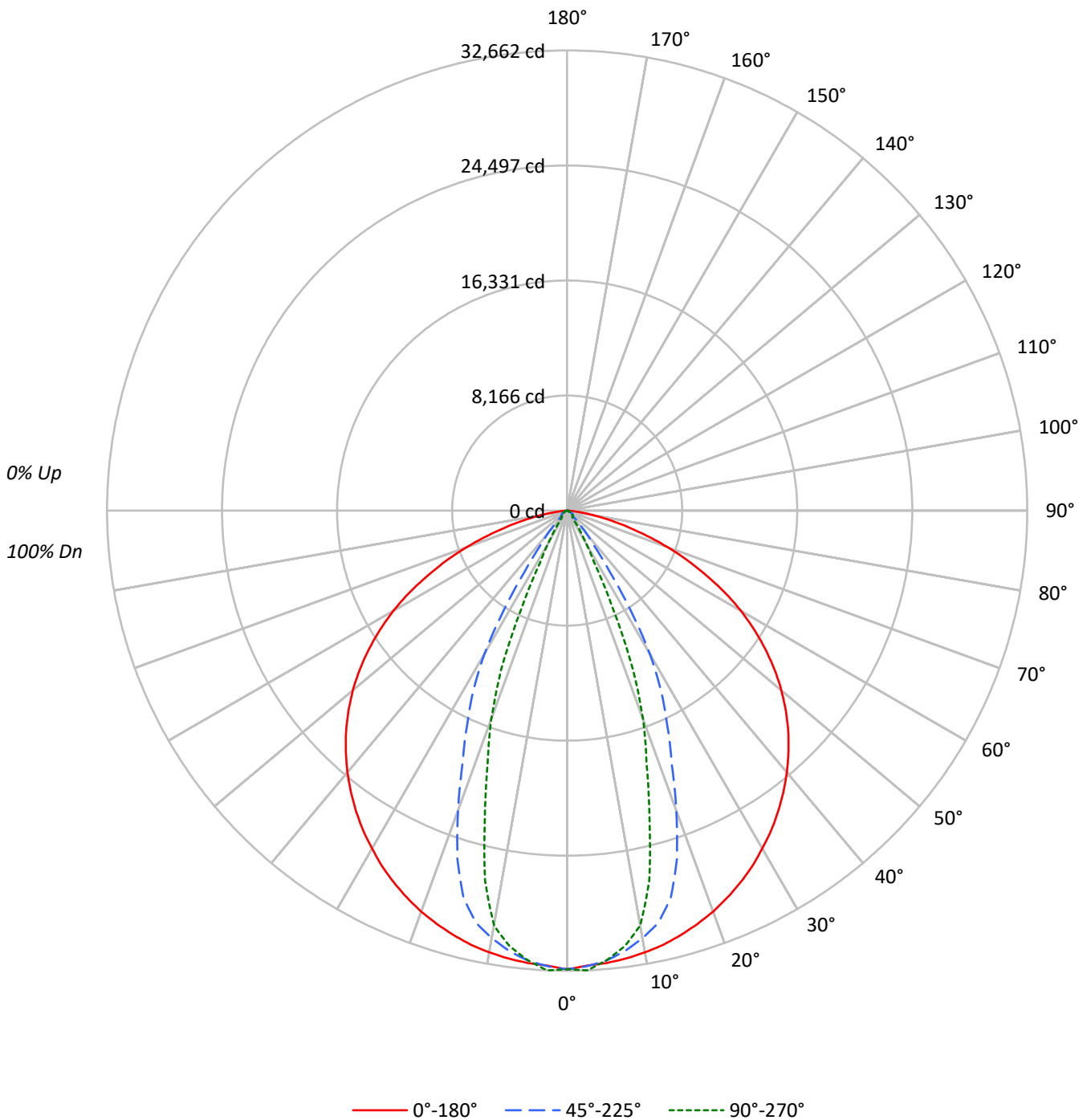
Lumens per Lamp: N/A  
Luminaire Lumens: 34816.0 lumens  
Efficiency: N/A  
Efficacy: 164.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92					90				
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83					81				
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75					73				
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68					66				
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62					60				
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57					55				
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53					51				
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49					47				
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46					44				
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43					41				

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

	0°	45°	90°
0°	43801	43801	43801
5°	43532	43305	43273
10°	43502	42107	40865
15°	43453	39596	31421
20°	43368	32403	22538
25°	43232	24966	11453
30°	43027	18220	4167
35°	42874	8367	1450
40°	42610	3798	1001
45°	42231	1417	1014
50°	41558	1029	1067
55°	40328	1082	813
60°	38323	1157	717
65°	34754	880	583
70°	29798	636	537
75°	22776	563	511
80°	14250	529	555
85°	4500	618	746



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3030.7	8.7
10°-20°	7634.7	21.9
20°-30°	8314.5	23.9
30°-40°	6219.7	17.9
40°-50°	4472.1	12.8
50°-60°	2746.5	7.9
60°-70°	1580.4	4.5
70°-80°	705.4	2.0
80°-90°	111.9	0.3
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°	18980.0	54.5
0°-40°	25199.7	72.4
0°-60°	32418.3	93.1
0°-90°	34816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34816.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	32554	32554	32554	32554	32554	
5°	32231	32382	32062	32092	32039	###
15°	31195	30596	28426	24413	22557	8806
25°	29121	27032	16817	10790	7714	13424
35°	26102	18721	5094	1498	883	16328
45°	22194	10518	745	551	533	17098
55°	17192	2186	461	446	346	15327
65°	10916	240	276	230	183	10806
75°	4381	145	108	112	98	4754
85°	292	28	40	52	48	581
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	32553.9	32553.9	32553.9	32553.9	32553.9
2.5°	32327.3	32538.9	32360.6	32520.6	32662.2
5°	32230.7	32382.3	32062.5	32092.4	32039.1
7.5°	32064.1	32100.8	31522.7	31299.5	31191.2
10°	31840.9	31742.6	30819.7	30288.3	29910.2
12.5°	31559.4	31234.5	29945.2	28047.8	26916.7
15°	31194.6	30596.5	28425.9	24412.9	22557.2
17.5°	30759.8	29930.2	25910.5	20346.6	18740.7
20°	30288.3	29193.9	22630.5	17299.8	15740.5
22.5°	29731.9	28252.7	19395.4	14387.9	12247.3
25°	29120.6	27031.6	16816.7	10789.7	7714.5
27.5°	28460.9	25420.7	14429.5	6616.7	4171.3
30°	27694.6	23460.1	11727.5	3713.2	2682.0
32.5°	26946.7	21174.5	8377.5	2473.8	1714.2
35°	26102.1	18720.7	5094.1	1497.6	882.9
37.5°	25207.5	16490.2	3188.4	814.6	609.7
40°	24259.7	14374.5	2162.3	578.0	569.7
42.5°	23246.8	12460.5	1354.3	549.7	568.1
45°	22194.0	10518.1	744.6	551.4	533.1
47.5°	21051.2	8409.2	519.7	521.4	519.7
50°	19853.5	6032.0	491.4	514.7	509.7
52.5°	18562.5	3744.8	493.1	503.1	451.4
55°	17191.5	2185.6	461.4	446.4	346.5
57.5°	15750.5	1362.7	451.4	368.2	311.5
60°	14241.3	719.6	429.8	331.5	266.5
62.5°	12633.7	354.8	344.8	283.2	218.2
65°	10916.3	239.9	276.5	229.9	183.2
67.5°	9257.1	216.6	208.2	188.2	159.9
70°	7574.6	198.2	161.6	164.9	136.6
72.5°	5923.7	179.9	129.9	141.6	114.9
75°	4381.2	144.9	108.3	111.6	98.3
77.5°	3048.5	113.3	85.0	95.0	91.6
80°	1839.1	71.6	68.3	78.3	71.6
82.5°	891.2	46.6	53.3	61.6	56.6
85°	291.5	28.3	40.0	51.6	48.3
87.5°	36.6	16.7	33.3	45.0	41.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)