

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-LD5-48HE-N-UNV-L750-ED4-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 (P23767)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-48HE-N-UNV-L750-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

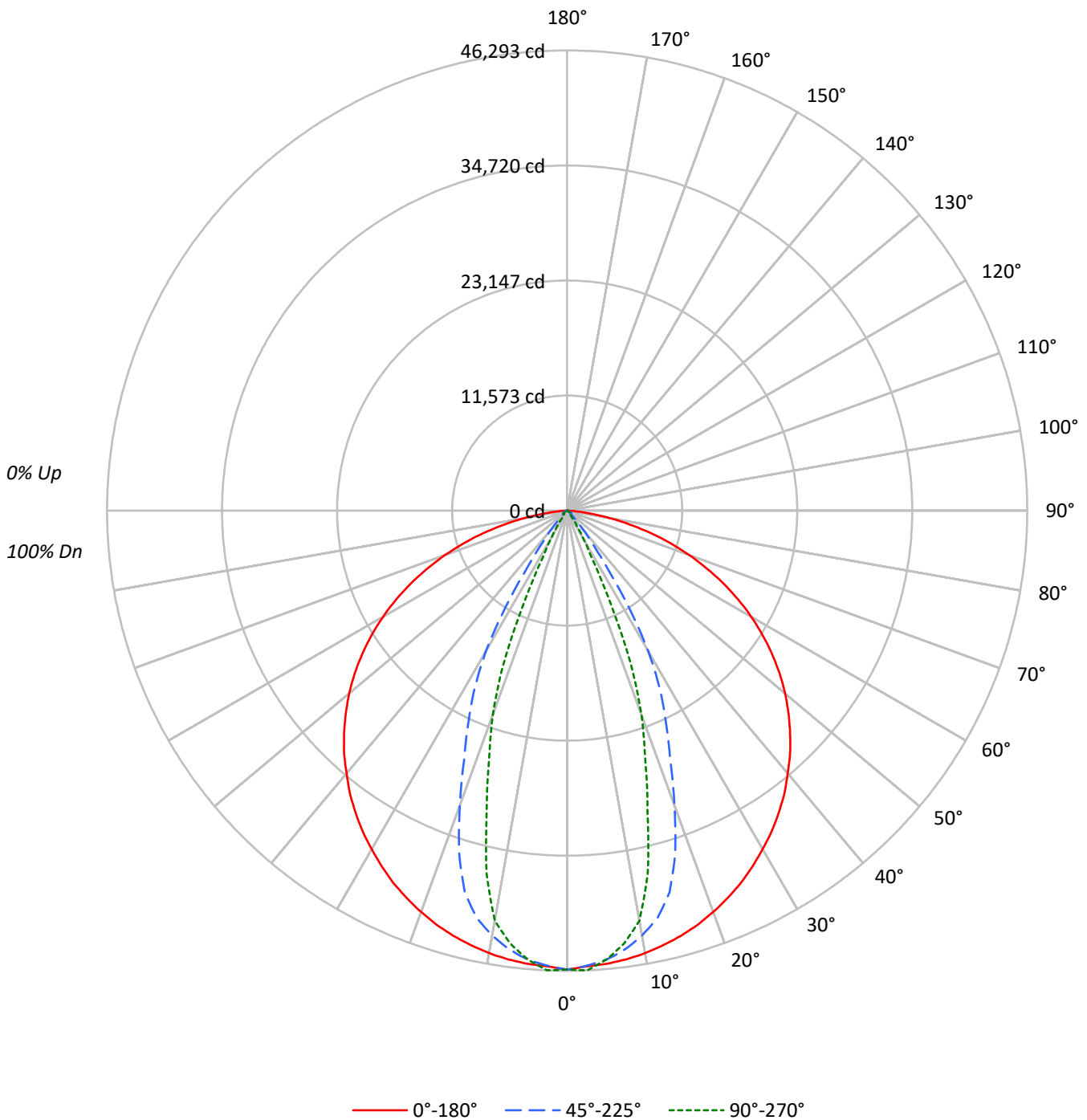
Lumens per Lamp: N/A  
Luminaire Lumens: 49085.0 lumens  
Efficiency: N/A  
Efficacy: 171.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 286.2  
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	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

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

	0°	45°	90°
0°	62137	62137	62137
5°	61804	61258	61232
10°	61766	59295	57215
15°	61678	55396	43544
20°	61535	45159	31343
25°	61378	34918	15440
30°	61107	25377	5007
35°	60962	11259	1288
40°	60643	4572	868
45°	60372	1283	924
50°	59901	911	1025
55°	59039	1082	438
60°	57582	1206	266
65°	55213	770	315
70°	51294	683	389
75°	44873	514	537
80°	33551	630	766
85°	16619	814	1017



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4285.7	8.7
10°-20°	10716.4	21.8
20°-30°	11607.5	23.6
30°-40°	8595.8	17.5
40°-50°	6191.2	12.6
50°-60°	3833.5	7.8
60°-70°	2357.6	4.8
70°-80°	1242.8	2.5
80°-90°	254.4	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°	26609.6	54.2
0°-40°	35205.4	71.7
0°-60°	45230.2	92.1
0°-90°	49085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	49085.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	46181	46181	46181	46181	46181	
5°	45760	45929	45355	45388	45336	###
15°	44279	43251	39769	33819	31260	12500
25°	41344	37870	23520	14796	10400	19050
35°	37115	26165	6854	1612	784	23220
45°	31728	14741	674	488	486	24469
55°	25168	3036	461	417	187	22467
65°	17342	321	242	154	99	17111
75°	8632	75	99	130	103	9117
85°	1076	29	53	79	66	###
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	46181.4	46181.4	46181.4	46181.4	46181.4
2.5°	45884.8	46177.0	45832.1	46089.1	46293.4
5°	45759.6	45928.8	45355.4	45388.3	45335.6
7.5°	45539.9	45500.4	44535.9	44114.1	43929.6
10°	45208.2	44946.7	43400.1	42519.1	41877.6
12.5°	44779.8	44195.4	41983.1	39182.0	37442.1
15°	44278.9	43250.7	39768.6	33819.3	31259.9
17.5°	43681.3	42224.7	36148.1	28344.6	26059.8
20°	42976.1	41080.2	31538.9	24115.6	21890.1
22.5°	42189.6	39687.3	27061.6	20042.5	16867.9
25°	41343.8	37870.5	23520.2	14796.2	10400.2
27.5°	40366.2	35535.1	20198.5	8715.2	5307.8
30°	39331.4	32723.1	16334.1	4688.2	3222.9
32.5°	38287.9	29535.4	11558.0	2928.5	1827.8
35°	37114.7	26165.3	6854.4	1612.5	784.3
37.5°	35891.0	23076.4	4051.1	733.8	503.1
40°	34526.8	20253.4	2603.3	487.7	494.3
42.5°	33208.6	17621.5	1465.3	481.1	489.9
45°	31727.9	14741.3	674.5	487.7	485.5
47.5°	30196.6	11755.7	437.2	492.1	492.1
50°	28617.0	8405.4	435.0	503.1	489.9
52.5°	26949.6	5244.0	452.6	500.9	402.0
55°	25167.9	3036.1	461.4	417.4	186.7
57.5°	23322.5	1790.5	465.7	239.5	105.5
60°	21398.0	990.8	448.2	178.0	98.9
62.5°	19414.2	472.3	353.7	167.0	96.7
65°	17342.5	320.7	241.7	153.8	98.9
67.5°	15191.7	248.3	191.1	145.0	101.1
70°	13038.7	184.5	173.6	145.0	98.9
72.5°	10850.6	125.2	145.0	147.2	98.9
75°	8631.7	74.7	98.9	129.6	103.3
77.5°	6432.6	46.1	76.9	134.0	125.2
80°	4330.1	39.5	81.3	125.2	98.9
82.5°	2541.8	35.2	79.1	96.7	79.1
85°	1076.5	28.6	52.7	79.1	65.9
87.5°	202.1	24.2	41.7	63.7	57.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)