

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-W-AI-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 (P23765)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-48HE-W-AI-UNV-L750-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

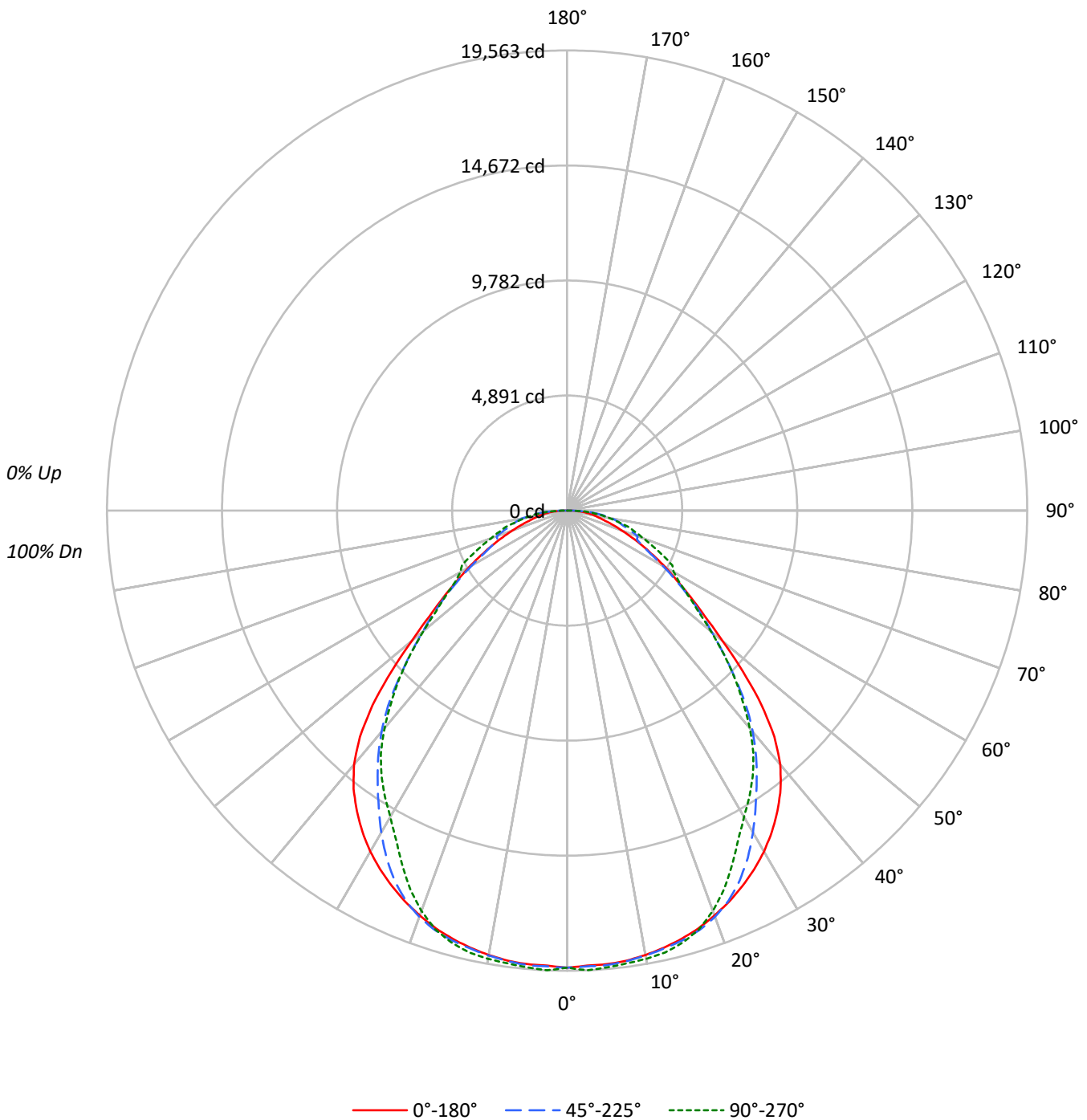
Lumens per Lamp: N/A  
Luminaire Lumens: 44980.0 lumens  
Efficiency: N/A  
Efficacy: 157.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

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

	0°	45°	90°
0°	26147	26147	26147
5°	26145	26202	26330
10°	26210	26243	26436
15°	26250	26349	26477
20°	26224	26322	25931
25°	26158	25766	24645
30°	26003	24550	23354
35°	25612	23075	22594
40°	24755	21575	21219
45°	22251	19265	19194
50°	18047	16780	16665
55°	14985	14706	14701
60°	12974	12595	14081
65°	11244	11174	14194
70°	9696	12535	13530
75°	8694	12847	14105
80°	9037	15124	14152
85°	10260	17428	16170



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1850.3	4.1
10°-20°	5343.7	11.9
20°-30°	7936.5	17.6
30°-40°	9010.1	20.0
40°-50°	8054.7	17.9
50°-60°	5569.0	12.4
60°-70°	3674.8	8.2
70°-80°	2479.2	5.5
80°-90°	1061.8	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°	15130.4	33.6
0°-40°	24140.5	53.7
0°-60°	37764.2	84.0
0°-90°	44980.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	44980.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19433	19433	19433	19433	19433	
5°	19358	19477	19400	19479	19494	###
15°	18845	18935	18916	19021	19008	5319
25°	17620	17787	17356	16838	16601	8119
35°	15593	15265	14048	13843	13755	9724
45°	11694	10703	10125	10202	10087	8893
55°	6388	5831	6269	6181	6267	5802
65°	3532	3136	3510	4104	4458	3524
75°	1672	2104	2471	2641	2713	1826
85°	665	924	1129	1136	1047	693
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	19432.8	19432.8	19432.8	19432.8	19432.8
2.5°	19366.7	19487.8	19397.5	19481.2	19562.6
5°	19357.9	19476.8	19399.7	19479.0	19494.4
7.5°	19302.9	19412.9	19322.7	19399.7	19417.3
10°	19184.1	19313.9	19208.3	19327.1	19349.1
12.5°	19030.1	19162.1	19069.7	19232.5	19241.3
15°	18845.2	18935.4	18915.6	19021.3	19008.1
17.5°	18612.0	18715.4	18700.0	18726.4	18664.8
20°	18314.9	18431.5	18383.1	18262.1	18110.2
22.5°	17995.8	18136.6	17945.2	17639.3	17425.9
25°	17619.5	17786.8	17355.5	16838.3	16600.7
27.5°	17203.6	17353.3	16635.9	16002.1	15755.7
30°	16737.1	16800.9	15801.9	15199.0	15031.7
32.5°	16198.0	16105.6	14910.7	14512.4	14415.6
35°	15592.9	15265.0	14048.1	13843.4	13755.4
37.5°	14910.7	14310.0	13196.5	13101.9	13009.4
40°	14094.3	13207.5	12283.3	12221.7	12080.8
42.5°	13040.3	12008.2	11268.8	11196.2	11070.8
45°	11693.5	10703.3	10124.6	10201.6	10087.2
47.5°	10144.4	9394.0	9026.5	9237.8	9026.5
50°	8621.6	8117.7	8016.5	8207.9	7961.5
52.5°	7373.9	6920.6	7129.7	7162.7	7015.2
55°	6388.1	5831.4	6269.3	6181.2	6267.1
57.5°	5529.9	4907.1	5446.3	5345.1	5639.9
60°	4821.3	4121.6	4680.5	4658.5	5232.8
62.5°	4126.0	3567.0	4015.9	4339.4	5045.8
65°	3531.8	3135.7	3509.8	4104.0	4458.2
67.5°	2961.9	2812.3	3210.6	3540.6	3927.9
70°	2464.6	2541.6	3186.3	3124.7	3439.4
72.5°	2046.5	2308.3	2812.3	2823.3	3045.5
75°	1672.4	2103.7	2471.2	2640.6	2713.2
77.5°	1390.7	1907.8	2231.3	2290.7	2220.3
80°	1166.3	1681.2	1951.9	1925.5	1826.4
82.5°	941.8	1274.1	1538.2	1562.4	1445.7
85°	664.6	924.2	1128.9	1135.5	1047.4
87.5°	356.5	569.9	684.4	704.2	651.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)