

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-WG-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 (P33336)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-48HE-W-WG-UNV-L750-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

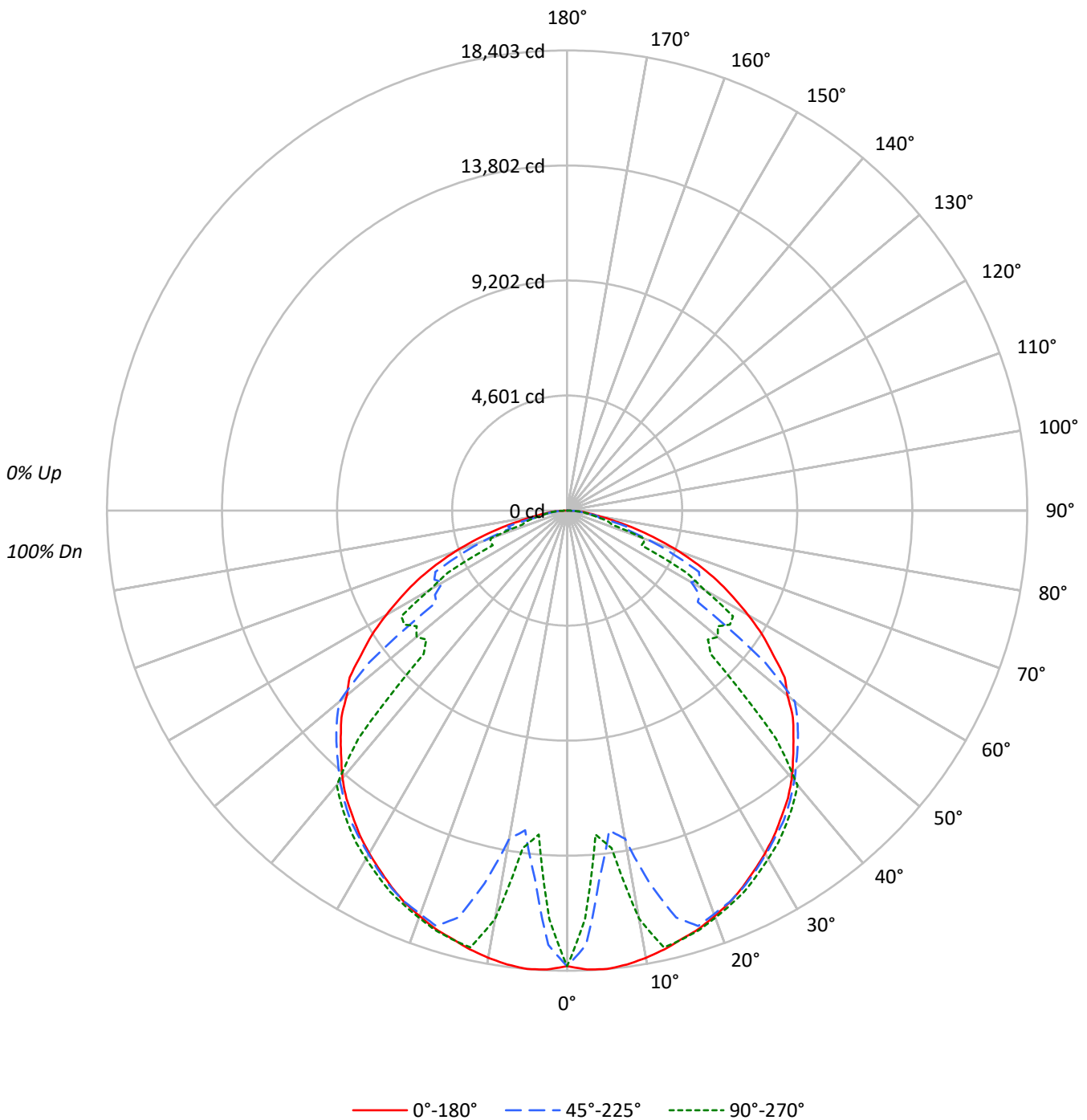
Lumens per Lamp: N/A  
Luminaire Lumens: 48269.0 lumens  
Efficiency: N/A  
Efficacy: 168.7 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

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

	0°	45°	90°
0°	24515	24515	24515
5°	24856	19968	17561
10°	24813	18211	22649
15°	24703	23471	24724
20°	24703	24591	24809
25°	24659	24714	24940
30°	24587	24668	24987
35°	24549	24821	25110
40°	24551	24819	25175
45°	24359	24836	15434
50°	24083	24886	16449
55°	23575	14964	18644
60°	22489	15425	17072
65°	21072	18520	10446
70°	18607	14030	12805
75°	14825	12753	8880
80°	10213	9217	7630
85°	9788	8509	8072



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1457.0	3.0
10°-20°	4564.5	9.5
20°-30°	7509.5	15.6
30°-40°	9442.2	19.6
40°-50°	9260.4	19.2
50°-60°	7672.7	15.9
60°-70°	5411.7	11.2
70°-80°	2361.1	4.9
80°-90°	589.9	1.2
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°	13530.9	28.0
0°-40°	22973.1	47.6
0°-60°	39906.3	82.7
0°-90°	48269.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48269.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	18220	18220	18220	18220	18220	
5°	18403	17128	14784	13405	13002	###
15°	17734	12316	16850	17804	17749	5015
25°	16610	15198	16647	16758	16800	7656
35°	14946	14937	15111	15211	15288	9364
45°	12802	12841	13052	11560	8111	9882
55°	10050	10379	6379	7253	7948	8992
65°	6619	7009	5817	4475	3281	6508
75°	2852	2795	2453	1604	1708	3058
85°	634	564	551	527	523	658
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	18220.0	18220.0	18220.0	18220.0	18220.0
2.5°	18370.3	17989.0	17383.4	16620.9	16350.7
5°	18403.0	17128.5	14784.3	13405.2	13002.1
7.5°	18309.3	15566.4	12888.8	13178.6	13605.6
10°	18161.2	14193.8	13328.9	15681.9	16577.3
12.5°	17971.6	12973.8	15270.1	17714.5	17893.2
15°	17734.1	12315.9	16849.6	17803.9	17749.4
17.5°	17533.7	12701.5	17416.1	17625.2	17586.0
20°	17252.7	13470.5	17174.2	17342.0	17326.7
22.5°	16969.4	14381.2	16945.5	17065.3	17065.3
25°	16610.0	15198.2	16647.0	16758.1	16799.5
27.5°	16215.6	15668.8	16274.5	16366.0	16440.0
30°	15825.7	15736.3	15877.9	15995.6	16082.7
32.5°	15413.9	15379.0	15490.1	15614.3	15725.4
35°	14945.5	14936.8	15111.1	15211.3	15287.5
37.5°	14505.4	14474.9	14636.1	14775.5	14834.4
40°	13978.2	13978.2	14130.7	14272.3	14333.3
42.5°	13376.9	13461.8	13579.5	13725.4	12361.6
45°	12801.7	12840.9	13052.2	11559.9	8111.1
47.5°	12248.3	12298.4	12498.9	7431.3	7634.0
50°	11505.4	11732.0	11888.8	7409.6	7858.4
52.5°	10962.9	11061.0	9980.4	7335.5	7588.2
55°	10050.1	10379.0	6379.1	7252.7	7947.7
57.5°	9270.1	9509.8	6272.3	7431.3	7862.7
60°	8357.3	8723.3	5732.0	7169.9	6344.2
62.5°	7481.5	7830.0	5984.7	5642.7	5372.5
65°	6618.7	7008.7	5817.0	4474.9	3281.0
67.5°	5673.2	5309.3	4640.5	3152.5	3318.1
70°	4729.8	3708.0	3566.4	3525.0	3254.9
72.5°	3760.3	2705.9	2368.2	2644.9	1893.2
75°	2851.8	2795.2	2453.2	1603.5	1708.1
77.5°	1978.2	2017.4	1313.7	1564.3	1298.5
80°	1318.1	1141.6	1189.5	997.8	984.7
82.5°	912.9	932.5	782.1	758.2	769.1
85°	634.0	564.3	551.2	527.2	522.9
87.5°	211.3	246.2	228.8	207.0	220.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)