

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-LD5-48SE-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-LD5-48SE-W-WG-UNV-L750-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

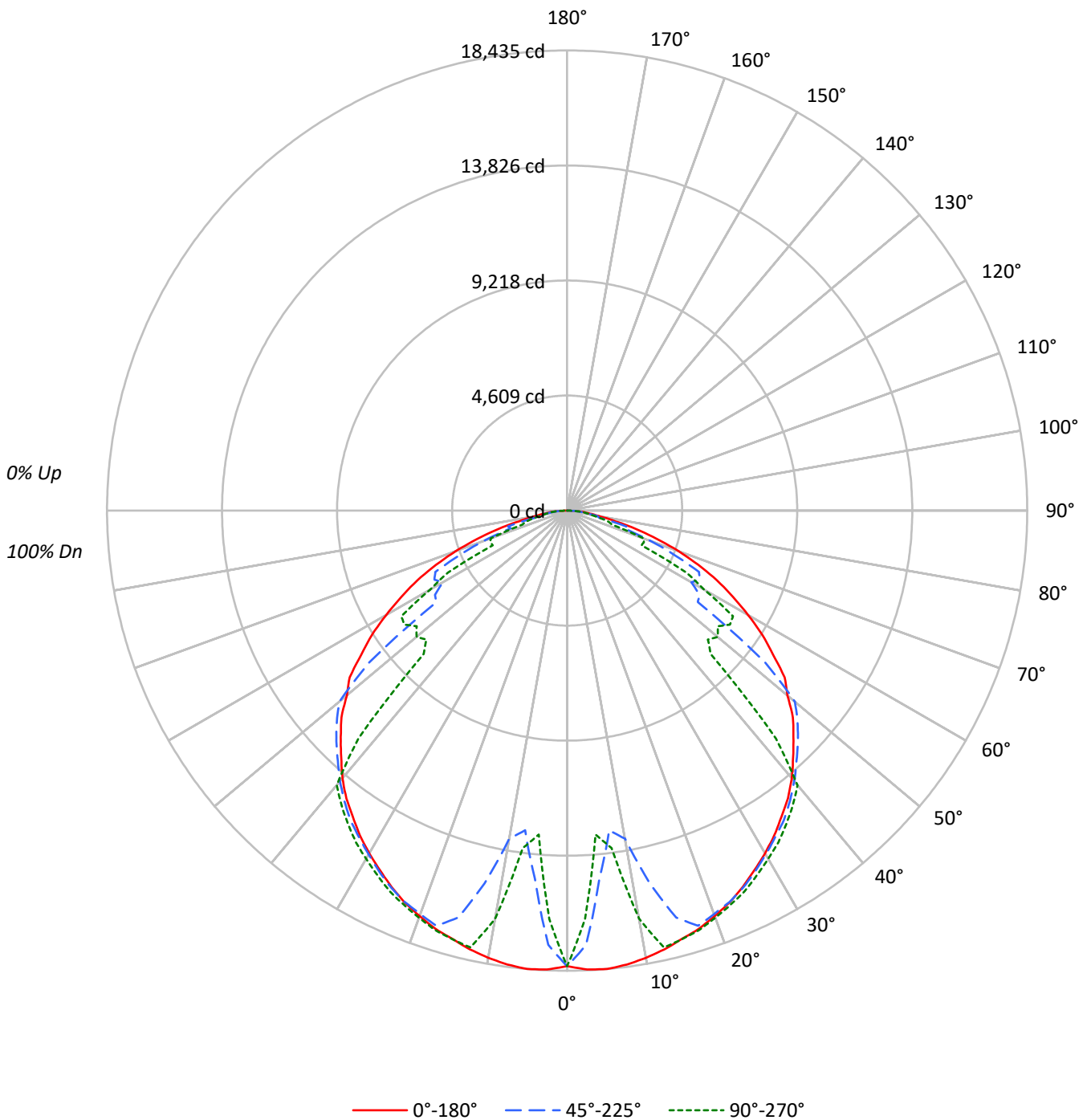
Lumens per Lamp: N/A  
Luminaire Lumens: 48352.0 lumens  
Efficiency: N/A  
Efficacy: 161.7 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 299.1  
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°	24557	24557	24557
5°	24898	20002	17591
10°	24855	18242	22688
15°	24745	23511	24767
20°	24745	24633	24852
25°	24701	24756	24983
30°	24630	24711	25030
35°	24591	24863	25154
40°	24594	24862	25218
45°	24401	24879	15460
50°	24125	24929	16478
55°	23616	14990	18676
60°	22528	15451	17101
65°	21108	18551	10464
70°	18639	14054	12827
75°	14851	12775	8895
80°	10230	9233	7643
85°	9805	8523	8086



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1459.5	3.0
10°-20°	4572.3	9.5
20°-30°	7522.4	15.6
30°-40°	9458.4	19.6
40°-50°	9276.4	19.2
50°-60°	7685.9	15.9
60°-70°	5421.0	11.2
70°-80°	2365.2	4.9
80°-90°	590.9	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°	13554.2	28.0
0°-40°	23012.6	47.6
0°-60°	39974.9	82.7
0°-90°	48352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48352.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	18251	18251	18251	18251	18251	
5°	18435	17158	14810	13428	13024	###
15°	17765	12337	16879	17834	17780	5023
25°	16638	15224	16676	16787	16828	7669
35°	14971	14962	15137	15237	15314	9380
45°	12824	12863	13075	11580	8125	9899
55°	10067	10397	6390	7265	7961	9007
65°	6630	7021	5827	4483	3287	6519
75°	2857	2800	2457	1606	1711	3064
85°	635	565	552	528	524	659
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	18251.3	18251.3	18251.3	18251.3	18251.3
2.5°	18401.9	18020.0	17413.3	16649.4	16378.8
5°	18434.6	17157.9	14809.7	13428.2	13024.5
7.5°	18340.8	15593.2	12911.0	13201.3	13629.0
10°	18192.4	14218.3	13351.8	15708.8	16605.8
12.5°	18002.5	12996.1	15296.4	17745.0	17923.9
15°	17764.6	12337.0	16878.6	17834.5	17779.9
17.5°	17563.9	12723.3	17446.0	17655.5	17616.2
20°	17282.3	13493.7	17203.8	17371.8	17356.5
22.5°	16998.6	14405.9	16974.6	17094.6	17094.6
25°	16638.5	15224.3	16675.6	16786.9	16828.4
27.5°	16243.5	15695.7	16302.4	16394.1	16468.3
30°	15852.9	15763.4	15905.2	16023.1	16110.4
32.5°	15440.4	15405.5	15516.8	15641.2	15752.5
35°	14971.2	14962.4	15137.0	15237.4	15313.8
37.5°	14530.3	14499.8	14661.3	14801.0	14859.9
40°	14002.2	14002.2	14155.0	14296.8	14357.9
42.5°	13399.9	13485.0	13602.8	13749.0	12382.9
45°	12823.7	12863.0	13074.7	11579.7	8125.0
47.5°	12269.4	12319.6	12520.4	7444.1	7647.1
50°	11525.2	11752.2	11909.3	7422.3	7871.9
52.5°	10981.8	11080.0	9997.5	7348.1	7601.3
55°	10067.4	10396.9	6390.0	7265.2	7961.4
57.5°	9286.1	9526.1	6283.1	7444.1	7876.2
60°	8371.6	8738.3	5741.9	7182.2	6355.1
62.5°	7494.3	7843.5	5995.0	5652.4	5381.8
65°	6630.1	7020.7	5827.0	4482.6	3286.7
67.5°	5682.9	5318.5	4648.5	3157.9	3323.8
70°	4738.0	3714.4	3572.6	3531.1	3260.5
72.5°	3766.8	2710.5	2372.3	2649.4	1896.5
75°	2856.7	2800.0	2457.4	1606.2	1711.0
77.5°	1981.6	2020.9	1316.0	1567.0	1300.7
80°	1320.3	1143.6	1191.6	999.5	986.4
82.5°	914.4	934.1	783.5	759.5	770.4
85°	635.1	565.2	552.1	528.1	523.8
87.5°	211.7	246.6	229.2	207.3	220.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)