

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

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

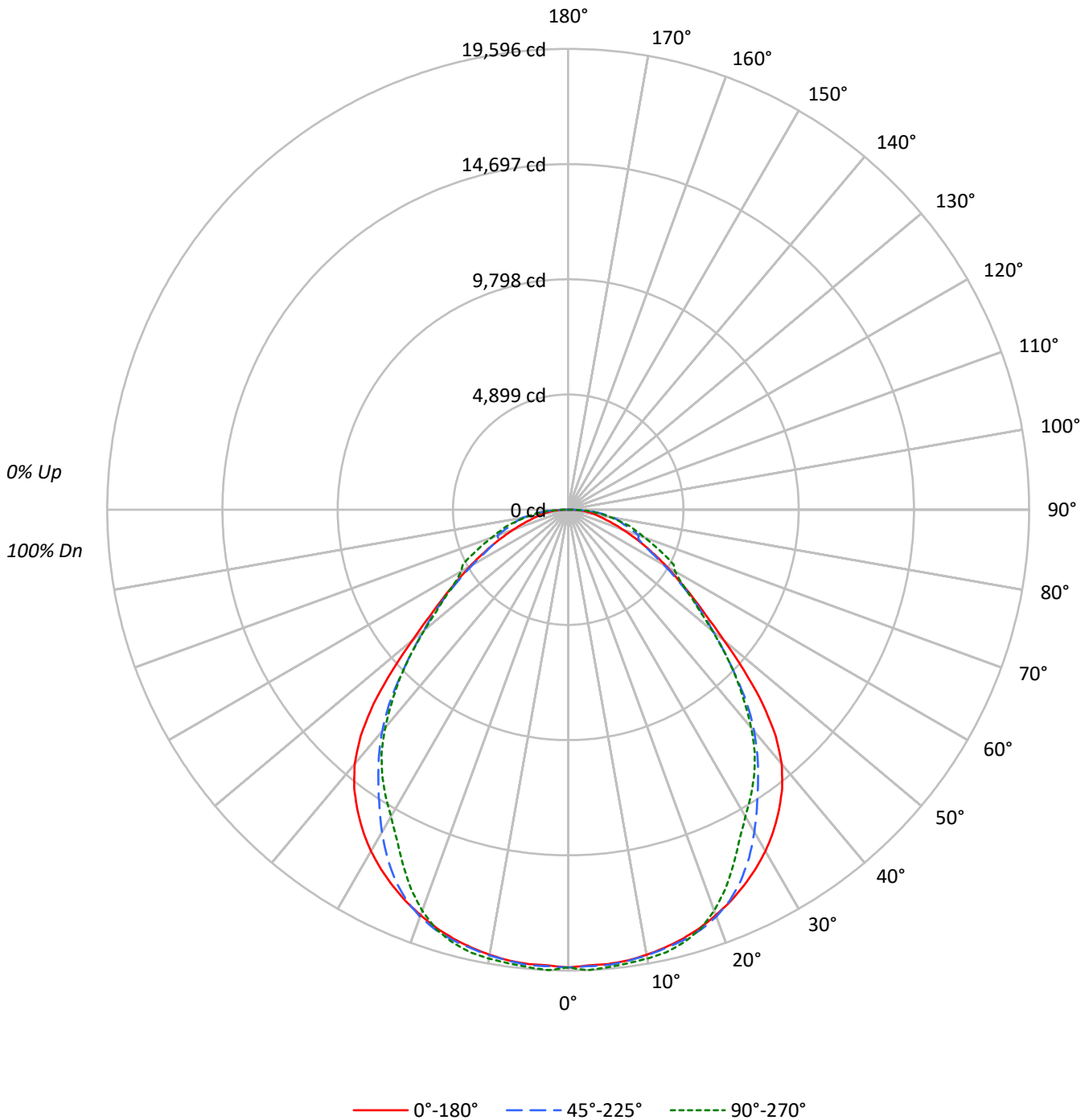
Lumens per Lamp: N/A  
Luminaire Lumens: 45057.0 lumens  
Efficiency: N/A  
Efficacy: 150.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29

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

	0°	45°	90°
0°	26191	26191	26191
5°	26190	26247	26375
10°	26255	26288	26481
15°	26295	26394	26523
20°	26269	26367	25975
25°	26202	25810	24687
30°	26048	24593	23394
35°	25656	23114	22633
40°	24798	21611	21255
45°	22289	19298	19227
50°	18078	16809	16694
55°	15011	14732	14726
60°	12996	12617	14106
65°	11264	11193	14218
70°	9712	12556	13554
75°	8709	12869	14129
80°	9052	15150	14176
85°	10277	17457	16197



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1853.4	4.1
10°-20°	5352.8	11.9
20°-30°	7950.1	17.6
30°-40°	9025.5	20.0
40°-50°	8068.5	17.9
50°-60°	5578.5	12.4
60°-70°	3681.1	8.2
70°-80°	2483.4	5.5
80°-90°	1063.6	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°	15156.3	33.6
0°-40°	24181.9	53.7
0°-60°	37828.9	84.0
0°-90°	45057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	45057.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19466	19466	19466	19466	19466	
5°	19391	19510	19433	19512	19528	###
15°	18878	18968	18948	19054	19041	5329
25°	17650	17817	17385	16867	16629	8133
35°	15620	15291	14072	13867	13779	9740
45°	11714	10722	10142	10219	10104	8908
55°	6399	5841	6280	6192	6278	5812
65°	3538	3141	3516	4111	4466	3531
75°	1675	2107	2475	2645	2718	1830
85°	666	926	1131	1137	1049	694
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	19466.0	19466.0	19466.0	19466.0	19466.0
2.5°	19399.9	19521.1	19430.7	19514.5	19596.1
5°	19391.1	19510.1	19433.0	19512.3	19527.7
7.5°	19336.0	19446.2	19355.8	19433.0	19450.6
10°	19216.9	19347.0	19241.2	19360.2	19382.3
12.5°	19062.6	19194.9	19102.3	19265.4	19274.2
15°	18877.5	18967.8	18948.0	19053.8	19040.6
17.5°	18643.8	18747.4	18732.0	18758.4	18696.7
20°	18346.2	18463.1	18414.6	18293.3	18141.2
22.5°	18026.6	18167.7	17975.9	17669.5	17455.7
25°	17649.7	17817.2	17385.2	16867.2	16629.1
27.5°	17233.1	17383.0	16664.4	16029.5	15782.7
30°	16765.8	16829.7	15829.0	15225.0	15057.5
32.5°	16225.7	16133.1	14936.2	14537.2	14440.3
35°	15619.5	15291.1	14072.1	13867.1	13779.0
37.5°	14936.2	14334.4	13219.1	13124.3	13031.7
40°	14118.4	13230.1	12304.3	12242.6	12101.5
42.5°	13062.6	12028.8	11288.1	11215.4	11089.7
45°	11713.6	10721.6	10141.9	10219.1	10104.4
47.5°	10161.7	9410.1	9042.0	9253.6	9042.0
50°	8636.4	8131.6	8030.2	8222.0	7975.1
52.5°	7386.6	6932.5	7141.9	7174.9	7027.3
55°	6399.0	5841.3	6280.0	6191.8	6277.8
57.5°	5539.4	4915.5	5455.6	5354.2	5649.6
60°	4829.6	4128.6	4688.5	4666.5	5241.8
62.5°	4133.0	3573.1	4022.8	4346.8	5054.4
65°	3537.9	3141.1	3515.8	4111.0	4465.9
67.5°	2967.0	2817.1	3216.0	3546.7	3934.6
70°	2468.8	2545.9	3191.8	3130.1	3445.3
72.5°	2050.0	2312.3	2817.1	2828.1	3050.7
75°	1675.3	2107.3	2475.4	2645.1	2717.9
77.5°	1393.1	1911.1	2235.1	2294.7	2224.1
80°	1168.3	1684.1	1955.2	1928.7	1829.6
82.5°	943.4	1276.3	1540.8	1565.0	1448.2
85°	665.7	925.8	1130.8	1137.4	1049.2
87.5°	357.1	570.9	685.5	705.4	652.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)