

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-CLI-UNV-L835-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 (P23766)  
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-CLI-UNV-L835-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

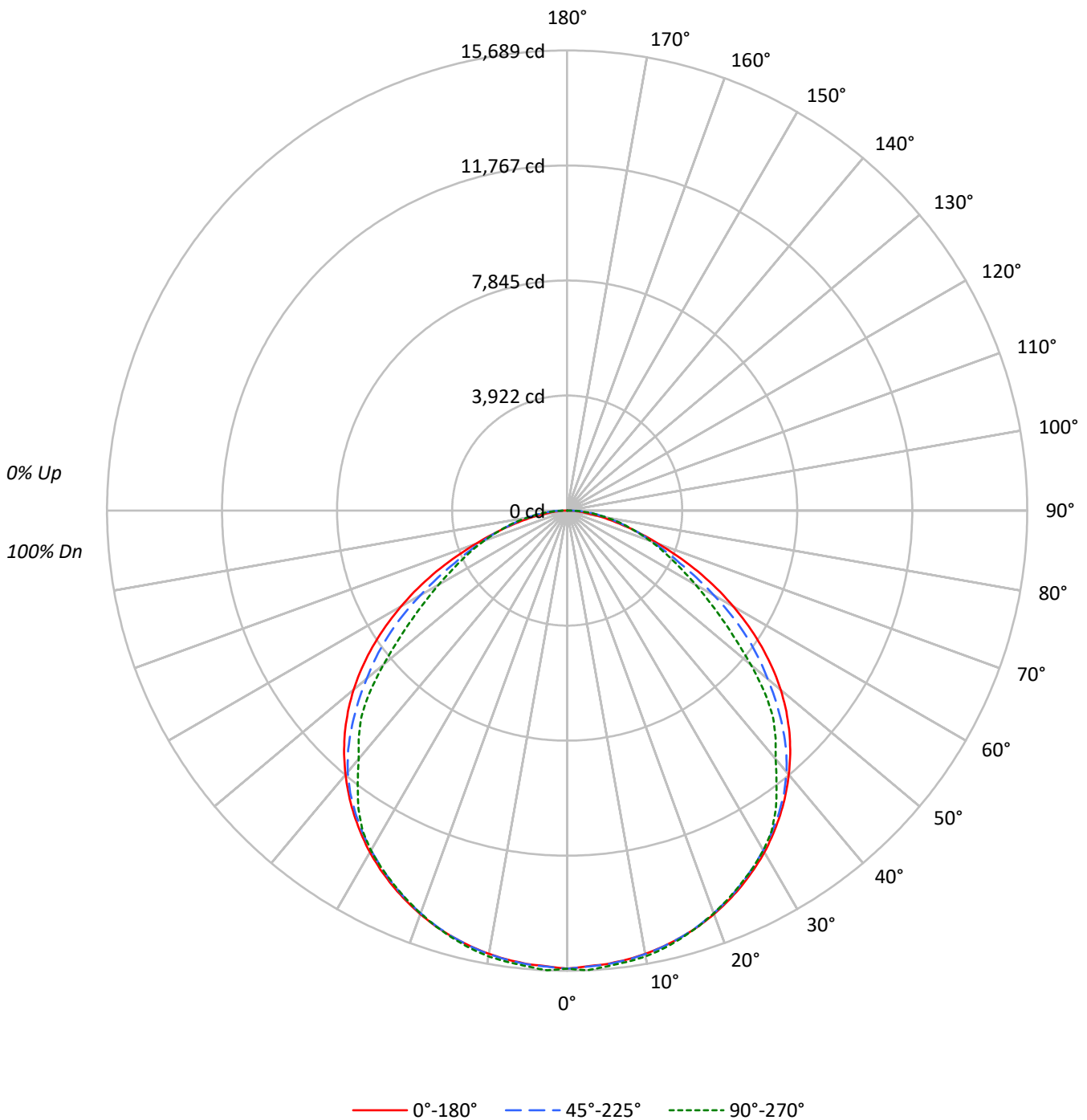
Lumens per Lamp: N/A  
Luminaire Lumens: 41961.0 lumens  
Efficiency: N/A  
Efficacy: 140.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	102	99	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65		74	68	64		71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

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

	0°	45°	90°
0°	21014	21014	21014
5°	20958	20973	21066
10°	20969	20980	21090
15°	20972	20969	21019
20°	20967	20918	20924
25°	20935	20857	20832
30°	20900	20775	20787
35°	20803	20674	20381
40°	20655	20444	19413
45°	20393	19740	18876
50°	19902	18689	17096
55°	18996	17478	15116
60°	17629	15595	13632
65°	15669	13502	12535
70°	13004	12067	11816
75°	10517	11043	11180
80°	8354	10562	10518
85°	6541	11347	10825



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1481.1	3.5
10°-20°	4260.4	10.2
20°-30°	6496.3	15.5
30°-40°	7859.6	18.7
40°-50°	7961.0	19.0
50°-60°	6580.0	15.7
60°-70°	4346.0	10.4
70°-80°	2266.2	5.4
80°-90°	710.4	1.7
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°	12237.8	29.2
0°-40°	20097.4	47.9
0°-60°	34638.4	82.5
0°-90°	41961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	41961.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15618	15618	15618	15618	15618	
5°	15517	15611	15528	15596	15598	###
15°	15056	15132	15054	15101	15089	4251
25°	14101	14158	14049	14084	14032	6502
35°	12665	12682	12586	12570	12408	7922
45°	10717	10689	10374	10052	9920	8252
55°	8098	7978	7451	6727	6444	7218
65°	4922	4779	4241	3966	3937	4861
75°	2023	2059	2124	2152	2150	2204
85°	424	546	735	729	701	514
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	15618.1	15618.1	15618.1	15618.1	15618.1
2.5°	15552.5	15644.4	15567.5	15635.0	15689.4
5°	15516.9	15610.6	15528.1	15595.6	15597.5
7.5°	15447.5	15541.2	15456.9	15524.4	15522.5
10°	15348.1	15436.3	15355.6	15436.3	15436.3
12.5°	15213.1	15299.4	15220.6	15295.6	15284.4
15°	15055.6	15132.5	15053.8	15100.6	15089.4
17.5°	14870.0	14939.4	14851.3	14890.7	14868.2
20°	14643.2	14706.9	14609.4	14660.0	14613.2
22.5°	14388.2	14448.2	14348.8	14386.3	14333.8
25°	14101.3	14157.6	14048.8	14084.4	14031.9
27.5°	13791.9	13842.6	13720.7	13763.8	13722.6
30°	13452.6	13477.0	13372.0	13428.2	13379.5
32.5°	13073.8	13088.8	12997.0	13047.6	12965.1
35°	12665.1	12682.0	12586.4	12569.5	12408.3
37.5°	12228.3	12235.8	12145.8	11993.9	11727.7
40°	11759.5	11755.8	11639.5	11288.9	11052.7
42.5°	11258.9	11257.0	11052.7	10653.3	10518.3
45°	10717.1	10688.9	10374.0	10051.5	9920.2
47.5°	10135.8	10105.8	9665.2	9408.4	9110.3
50°	9507.7	9455.2	8928.4	8577.8	8167.2
52.5°	8830.9	8750.3	8214.0	7647.8	7259.7
55°	8097.8	7977.8	7451.0	6727.2	6444.1
57.5°	7334.7	7156.6	6644.7	5939.8	5709.1
60°	6551.0	6352.2	5795.4	5216.0	5066.0
62.5°	5744.8	5547.9	4979.8	4542.9	4460.4
65°	4921.7	4779.2	4241.1	3965.5	3937.3
67.5°	4078.0	4027.3	3616.7	3476.1	3464.9
70°	3305.5	3296.1	3067.4	2996.1	3003.6
72.5°	2641.8	2630.5	2596.8	2561.1	2563.0
75°	2023.0	2058.7	2124.3	2152.4	2150.5
77.5°	1509.3	1582.4	1721.2	1777.4	1768.1
80°	1078.1	1186.8	1363.1	1415.6	1357.4
82.5°	718.1	832.5	1040.6	1048.1	1001.2
85°	423.7	545.6	735.0	729.3	701.2
87.5°	210.0	328.1	440.6	421.9	403.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)