

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-L735-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-L735-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

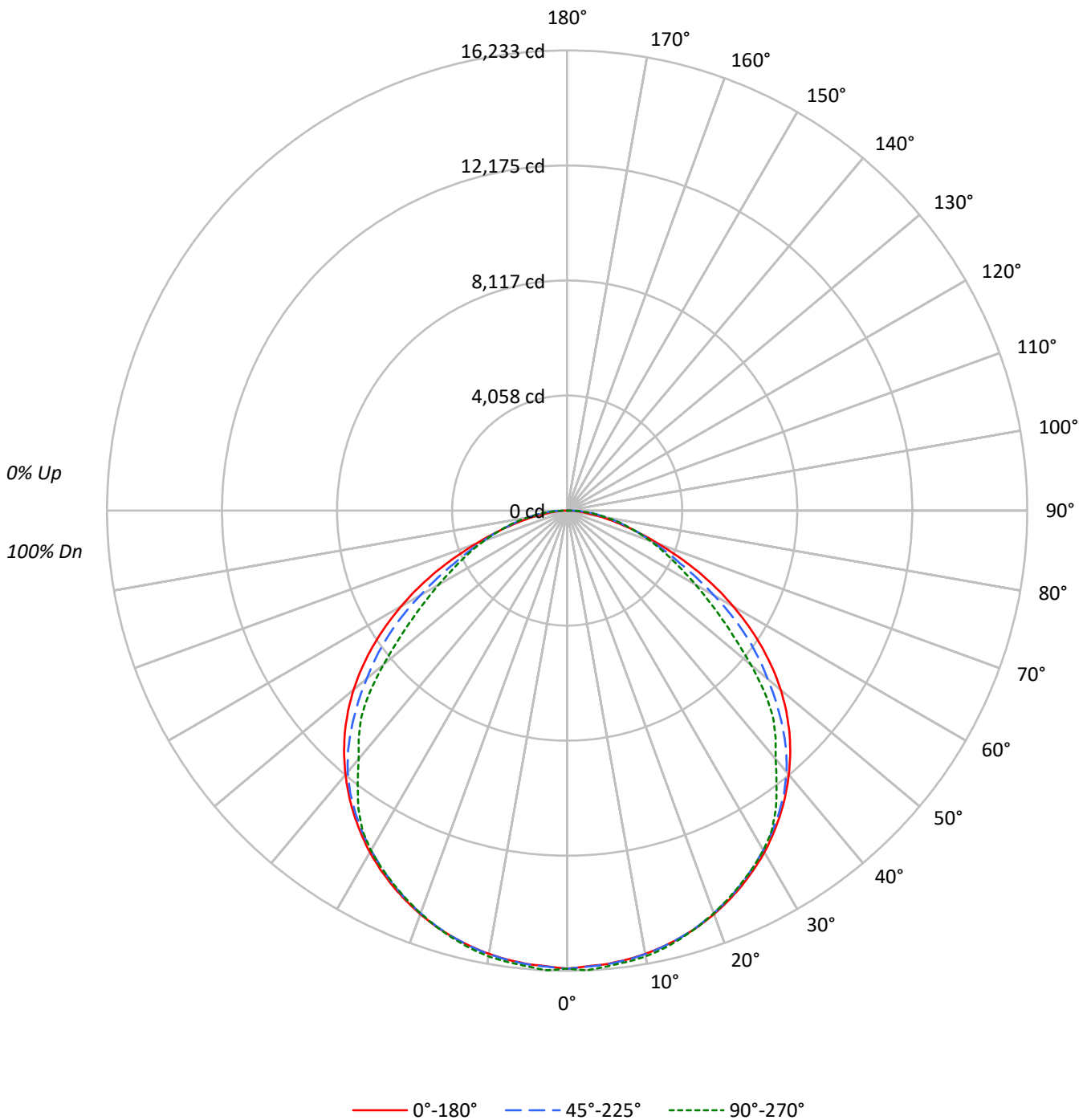
Lumens per Lamp: N/A  
Luminaire Lumens: 43416.0 lumens  
Efficiency: N/A  
Efficacy: 145.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	21743	21743	21743
5°	21684	21700	21797
10°	21696	21707	21821
15°	21699	21696	21748
20°	21694	21644	21649
25°	21661	21580	21554
30°	21625	21496	21508
35°	21524	21390	21088
40°	21371	21153	20086
45°	21100	20424	19531
50°	20592	19337	17688
55°	19654	18084	15641
60°	18240	16136	14105
65°	16212	13970	12970
70°	13454	12485	12226
75°	10882	11426	11567
80°	8643	10928	10883
85°	6768	11740	11200



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1532.5	3.5
10°-20°	4408.1	10.2
20°-30°	6721.6	15.5
30°-40°	8132.1	18.7
40°-50°	8237.1	19.0
50°-60°	6808.1	15.7
60°-70°	4496.7	10.4
70°-80°	2344.7	5.4
80°-90°	735.1	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°	12662.2	29.2
0°-40°	20794.3	47.9
0°-60°	35839.5	82.5
0°-90°	43416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	43416.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16160	16160	16160	16160	16160	
5°	16055	16152	16067	16136	16138	###
15°	15578	15657	15576	15624	15613	4399
25°	14590	14648	14536	14573	14518	6728
35°	13104	13122	13023	13005	12838	8197
45°	11089	11060	10734	10400	10264	8538
55°	8379	8254	7709	6960	6668	7468
65°	5092	4945	4388	4103	4074	5030
75°	2093	2130	2198	2227	2225	2280
85°	438	564	760	755	726	532
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	16159.7	16159.7	16159.7	16159.7	16159.7
2.5°	16091.8	16186.8	16107.3	16177.1	16233.4
5°	16054.9	16151.9	16066.6	16136.4	16138.3
7.5°	15983.1	16080.1	15992.8	16062.7	16060.7
10°	15880.3	15971.5	15888.1	15971.5	15971.5
12.5°	15740.7	15829.9	15748.4	15826.0	15814.4
15°	15577.7	15657.2	15575.8	15624.3	15612.6
17.5°	15385.6	15457.4	15366.2	15407.0	15383.7
20°	15150.9	15216.9	15116.0	15168.4	15119.9
22.5°	14887.1	14949.2	14846.3	14885.1	14830.8
25°	14590.3	14648.5	14536.0	14572.8	14518.5
27.5°	14270.2	14322.6	14196.5	14241.1	14198.4
30°	13919.1	13944.3	13835.6	13893.8	13843.4
32.5°	13527.2	13542.7	13447.6	13500.0	13414.7
35°	13104.3	13121.7	13022.8	13005.3	12838.5
37.5°	12652.3	12660.0	12566.9	12409.8	12134.3
40°	12167.3	12163.4	12043.1	11680.4	11435.9
42.5°	11649.3	11647.4	11435.9	11022.7	10883.1
45°	11088.7	11059.6	10733.7	10400.0	10264.2
47.5°	10487.3	10456.3	10000.4	9734.6	9426.2
50°	9837.4	9783.1	9238.0	8875.2	8450.4
52.5°	9137.1	9053.7	8498.9	7913.0	7511.4
55°	8378.6	8254.4	7709.3	6960.5	6667.6
57.5°	7589.0	7404.7	6875.1	6145.7	5907.1
60°	6778.1	6572.5	5996.3	5396.9	5241.7
62.5°	5944.0	5740.3	5152.5	4700.5	4615.1
65°	5092.3	4944.9	4388.1	4103.0	4073.9
67.5°	4219.4	4167.0	3742.1	3596.6	3585.0
70°	3420.1	3410.4	3173.7	3100.0	3107.8
72.5°	2733.4	2721.7	2686.8	2650.0	2651.9
75°	2093.2	2130.1	2197.9	2227.0	2225.1
77.5°	1561.6	1637.3	1780.9	1839.1	1829.4
80°	1115.5	1228.0	1410.3	1464.7	1404.5
82.5°	743.0	861.3	1076.7	1084.4	1035.9
85°	438.4	564.5	760.5	754.6	725.5
87.5°	217.3	339.5	455.9	436.5	417.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)