

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-L850-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-L850-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

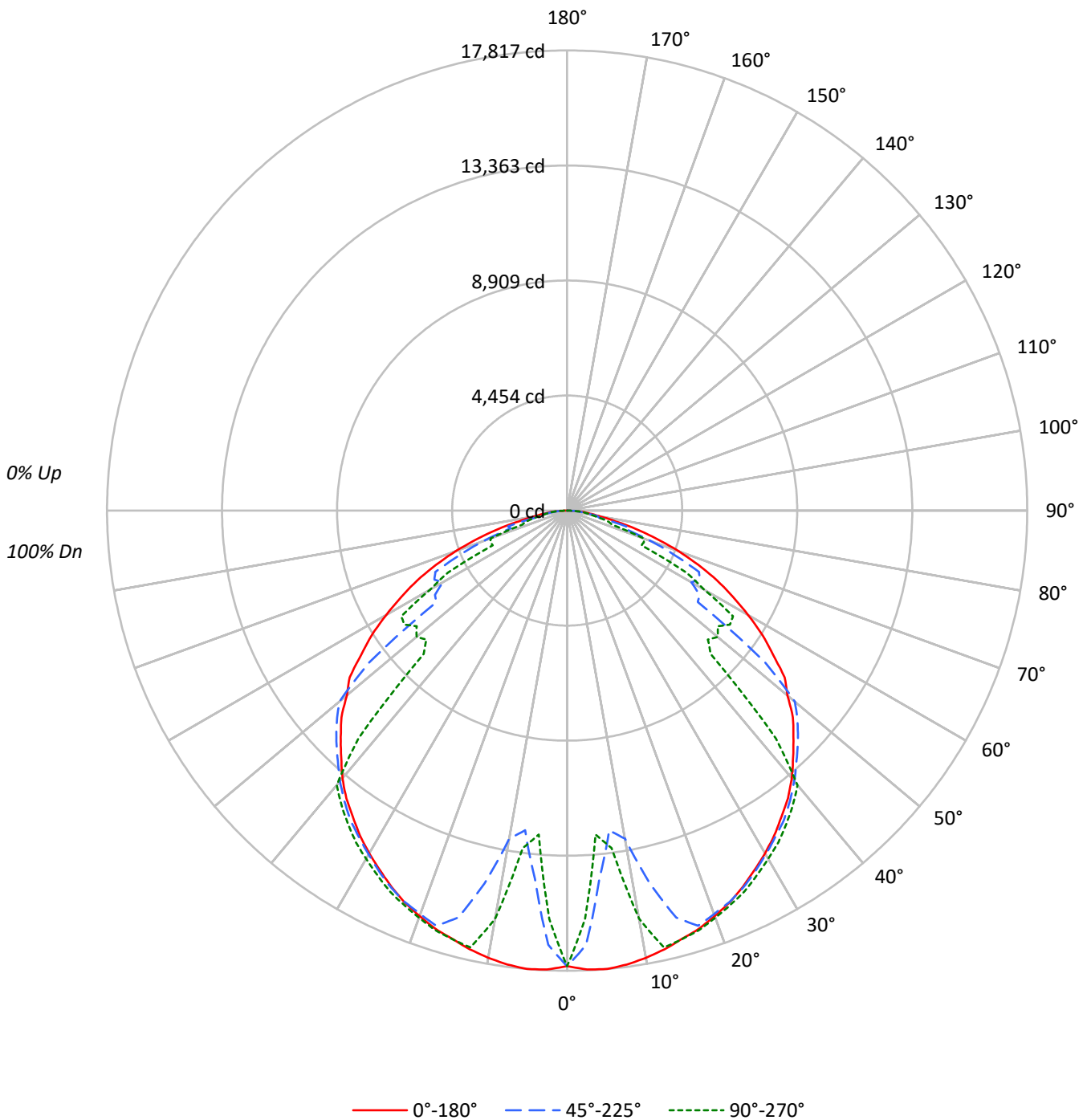
Lumens per Lamp: N/A
Luminaire Lumens: 46731.0 lumens
Efficiency: N/A
Efficacy: 156.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	23734	23734	23734
5°	24064	19332	17001
10°	24022	17630	21927
15°	23916	22723	23936
20°	23916	23807	24019
25°	23873	23926	24146
30°	23804	23883	24191
35°	23766	24030	24310
40°	23769	24028	24373
45°	23583	24045	14942
50°	23316	24093	15925
55°	22824	14487	18049
60°	21773	14933	16528
65°	20401	17929	10113
70°	18014	13583	12397
75°	14353	12347	8596
80°	9888	8923	7387
85°	9476	8238	7815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1410.5	3.0
10°-20°	4419.0	9.5
20°-30°	7270.2	15.6
30°-40°	9141.3	19.6
40°-50°	8965.4	19.2
50°-60°	7428.3	15.9
60°-70°	5239.3	11.2
70°-80°	2285.9	4.9
80°-90°	571.1	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°	13099.8	28.0
0°-40°	22241.1	47.6
0°-60°	38634.7	82.7
0°-90°	46731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	46731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17639	17639	17639	17639	17639	
5°	17817	16583	14313	12978	12588	###
15°	17169	11923	16313	17237	17184	4855
25°	16081	14714	16117	16224	16264	7412
35°	14469	14461	14630	14727	14800	9066
45°	12394	12432	12636	11192	7853	9567
55°	9730	10048	6176	7022	7694	8705
65°	6408	6785	5632	4332	3176	6300
75°	2761	2706	2375	1552	1654	2961
85°	614	546	534	510	506	637
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17639.4	17639.4	17639.4	17639.4	17639.4
2.5°	17785.0	17415.9	16829.5	16091.3	15829.7
5°	17816.6	16582.7	14313.2	12978.1	12587.8
7.5°	17725.9	15070.4	12478.2	12758.7	13172.1
10°	17582.5	13741.6	12904.2	15182.2	16049.1
12.5°	17399.0	12560.4	14783.5	17150.1	17323.0
15°	17169.1	11923.4	16312.7	17236.6	17183.8
17.5°	16975.0	12296.8	16861.1	17063.6	17025.6
20°	16702.9	13041.3	16627.0	16789.4	16774.7
22.5°	16428.7	13923.0	16405.5	16521.5	16521.5
25°	16080.7	14713.9	16116.6	16224.1	16264.2
27.5°	15698.9	15169.5	15755.9	15844.5	15916.2
30°	15321.4	15234.9	15372.0	15485.9	15570.3
32.5°	14922.8	14889.0	14996.6	15116.8	15224.4
35°	14469.3	14460.8	14629.6	14726.6	14800.4
37.5°	14043.2	14013.7	14169.8	14304.8	14361.7
40°	13532.8	13532.8	13680.4	13817.5	13876.6
42.5°	12950.6	13032.9	13146.8	13288.1	11967.7
45°	12393.8	12431.8	12636.4	11191.5	7852.6
47.5°	11858.1	11906.6	12100.6	7194.6	7390.7
50°	11138.8	11358.2	11510.0	7173.5	7608.0
52.5°	10613.6	10708.5	9662.4	7101.8	7346.4
55°	9729.8	10048.3	6175.8	7021.6	7694.4
57.5°	8974.7	9206.8	6072.5	7194.6	7612.2
60°	8091.0	8445.3	5549.4	6941.5	6142.1
62.5°	7243.1	7580.5	5794.0	5462.9	5201.3
65°	6407.8	6785.4	5631.6	4332.3	3176.5
67.5°	5492.4	5140.2	4492.6	3052.0	3212.3
70°	4579.1	3589.9	3452.8	3412.7	3151.2
72.5°	3640.5	2619.7	2292.7	2560.6	1832.9
75°	2761.0	2706.1	2375.0	1552.4	1653.6
77.5°	1915.2	1953.1	1271.9	1514.4	1257.1
80°	1276.1	1105.2	1151.6	966.0	953.4
82.5°	883.8	902.7	757.2	734.0	744.6
85°	613.8	546.3	533.6	510.4	506.2
87.5°	204.6	238.3	221.5	200.4	213.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)