

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-LD5-48HE-N-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 (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48HE-N-UNV-L735-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

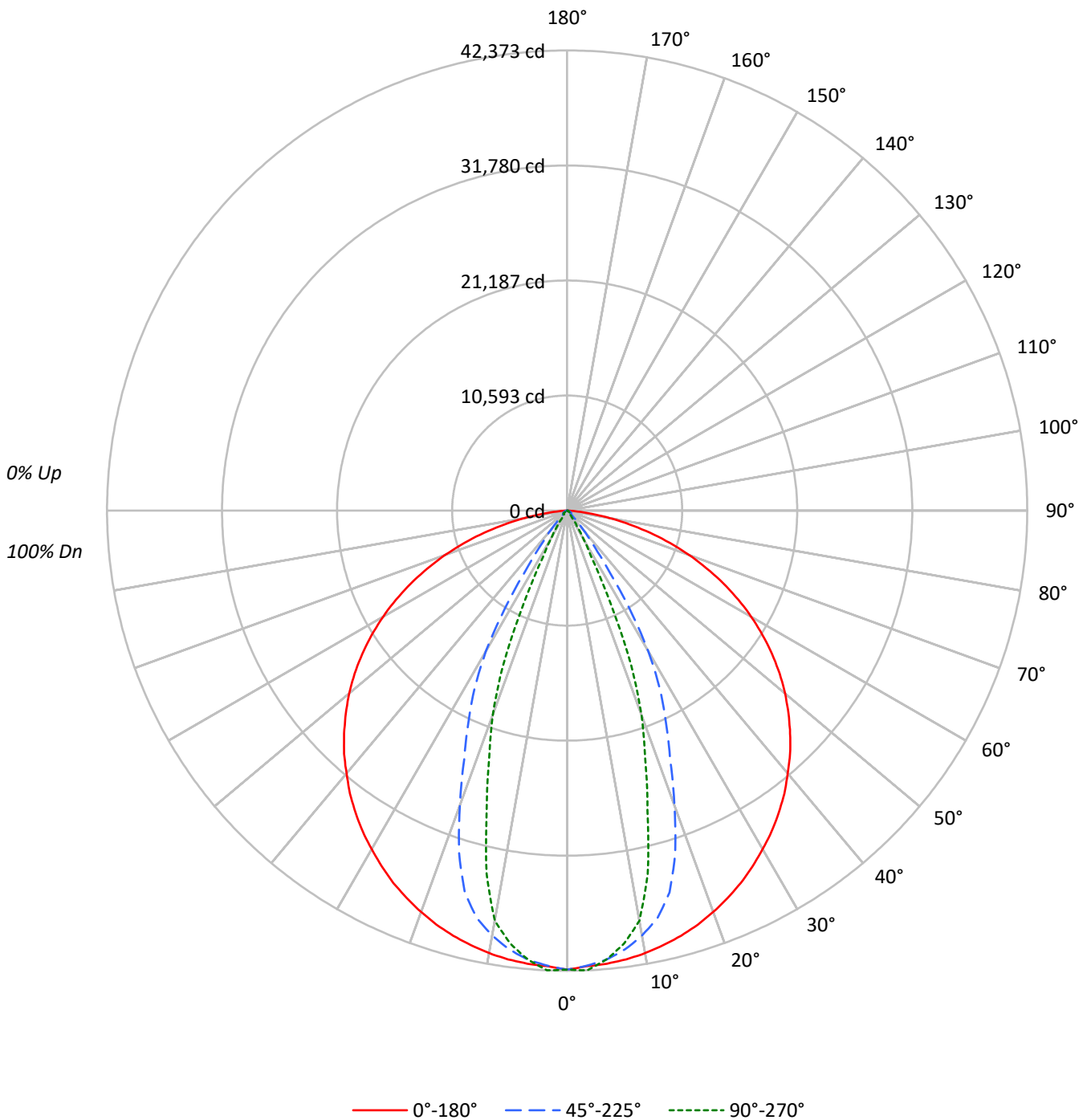
Lumens per Lamp: N/A
Luminaire Lumens: 44928.0 lumens
Efficiency: N/A
Efficacy: 157.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 286.2
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	56874	56874	56874
5°	56570	56070	56046
10°	56535	54274	52370
15°	56455	50704	39856
20°	56324	41334	28689
25°	56180	31961	14132
30°	55932	23228	4583
35°	55800	10305	1179
40°	55507	4185	795
45°	55259	1175	846
50°	54828	834	939
55°	54039	991	401
60°	52705	1104	244
65°	50537	704	288
70°	46950	625	356
75°	41072	470	491
80°	30710	576	701
85°	15211	746	931



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3922.7	8.7
10°-20°	9808.8	21.8
20°-30°	10624.4	23.6
30°-40°	7867.9	17.5
40°-50°	5666.9	12.6
50°-60°	3508.9	7.8
60°-70°	2157.9	4.8
70°-80°	1137.6	2.5
80°-90°	232.8	0.5
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°	24356.0	54.2
0°-40°	32223.9	71.7
0°-60°	41399.7	92.1
0°-90°	44928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	44928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	42270	42270	42270	42270	42270	
5°	41884	42039	41514	41544	41496	###
15°	40529	39588	36401	30955	28612	11441
25°	37842	34663	21528	13543	9519	17437
35°	33972	23949	6274	1476	718	21253
45°	29041	13493	617	446	444	22396
55°	23036	2779	422	382	171	20565
65°	15874	294	221	141	90	15662
75°	7901	68	90	119	94	8345
85°	985	26	48	72	60	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	42270.3	42270.3	42270.3	42270.3	42270.3
2.5°	41998.8	42266.3	41950.6	42185.8	42372.9
5°	41884.2	42039.1	41514.2	41544.4	41496.1
7.5°	41683.1	41646.9	40764.2	40378.1	40209.2
10°	41379.5	41140.2	39724.6	38918.2	38331.0
12.5°	40987.4	40452.5	38427.5	35863.7	34271.1
15°	40528.9	39587.8	36400.6	30955.2	28612.5
17.5°	39981.9	38648.7	33086.7	25944.1	23852.8
20°	39336.5	37601.1	28867.9	22073.2	20036.2
22.5°	38616.6	36326.2	24769.8	18345.1	15439.4
25°	37842.4	34663.2	21528.3	13543.1	9519.4
27.5°	36947.6	32525.7	18487.9	7977.1	4858.2
30°	36000.4	29951.8	14950.7	4291.2	2949.9
32.5°	35045.3	27034.0	10579.1	2680.5	1673.0
35°	33971.5	23949.4	6273.9	1476.0	717.9
37.5°	32851.4	21122.1	3708.0	671.6	460.5
40°	31602.7	18538.1	2382.9	446.4	452.4
42.5°	30396.2	16129.1	1341.2	440.4	448.4
45°	29040.9	13492.9	617.3	446.4	444.4
47.5°	27639.3	10760.1	400.2	450.4	450.4
50°	26193.5	7693.6	398.2	460.5	448.4
52.5°	24667.2	4799.9	414.2	458.5	368.0
55°	23036.4	2779.0	422.3	382.1	170.9
57.5°	21347.3	1638.9	426.3	219.2	96.5
60°	19585.8	906.9	410.2	162.9	90.5
62.5°	17770.0	432.3	323.7	152.8	88.5
65°	15873.7	293.6	221.2	140.8	90.5
67.5°	13905.1	227.2	174.9	132.7	92.5
70°	11934.5	168.9	158.9	132.7	90.5
72.5°	9931.6	114.6	132.7	134.7	90.5
75°	7900.7	68.4	90.5	118.6	94.5
77.5°	5887.8	42.2	70.4	122.7	114.6
80°	3963.4	36.2	74.4	114.6	90.5
82.5°	2326.6	32.2	72.4	88.5	72.4
85°	985.3	26.1	48.3	72.4	60.3
87.5°	185.0	22.1	38.2	58.3	52.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)