

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-W-UNV-L840-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 (P23760)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48HE-W-UNV-L840-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

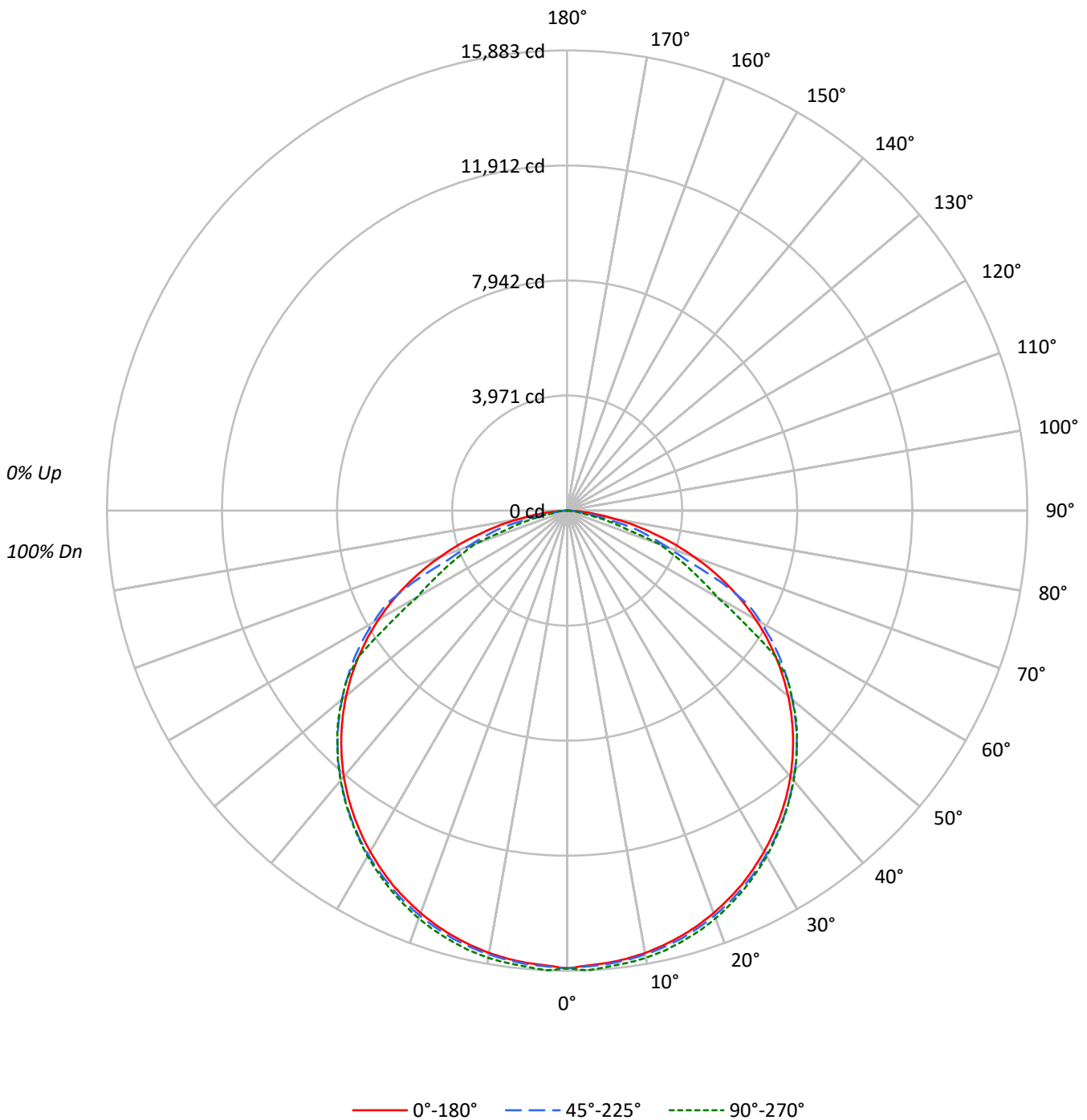
Lumens per Lamp: N/A
Luminaire Lumens: 45613.0 lumens
Efficiency: N/A
Efficacy: 159.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	89		91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47		58	52	47		56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21259	21259	21259
5°	21171	21230	21350
10°	21183	21258	21418
15°	21177	21291	21439
20°	21166	21302	21451
25°	21159	21311	21429
30°	21122	21328	21407
35°	21095	21338	21366
40°	21057	21337	21370
45°	20978	21327	21352
50°	20852	21237	21233
55°	20609	21125	20600
60°	20226	20813	16118
65°	19552	18731	14522
70°	18317	14412	13384
75°	16219	12565	8341
80°	13357	7397	3728
85°	8803	4533	4883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1499.3	3.3
10°-20°	4325.7	9.5
20°-30°	6631.8	14.5
30°-40°	8133.3	17.8
40°-50°	8636.2	18.9
50°-60°	7888.1	17.3
60°-70°	5493.3	12.0
70°-80°	2562.1	5.6
80°-90°	443.2	1.0
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°	12456.9	27.3
0°-40°	20590.1	45.1
0°-60°	37114.4	81.4
0°-90°	45613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	45613.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15800	15800	15800	15800	15800	
5°	15675	15785	15718	15794	15808	###
15°	15203	15309	15285	15378	15391	4293
25°	14252	14377	14355	14461	14434	6568
35°	12843	12991	12991	13078	13008	8037
45°	11024	11191	11208	11280	11222	8503
55°	8786	8962	9005	9020	8782	7846
65°	6141	6331	5884	4679	4561	6059
75°	3120	3317	2417	1674	1604	3335
85°	570	375	294	314	316	736
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15799.9	15799.9	15799.9	15799.9	15799.9
2.5°	15716.6	15817.0	15750.7	15822.7	15883.3
5°	15674.9	15784.8	15718.5	15794.2	15807.5
7.5°	15606.7	15710.9	15650.3	15733.6	15754.5
10°	15504.4	15606.7	15559.4	15657.9	15676.8
12.5°	15366.1	15470.3	15434.3	15542.3	15555.6
15°	15203.2	15309.3	15284.7	15377.5	15390.8
17.5°	15011.9	15121.8	15093.4	15191.9	15201.3
20°	14782.7	14902.1	14877.4	14993.0	14981.6
22.5°	14525.1	14652.0	14633.1	14748.6	14714.5
25°	14252.3	14377.3	14354.6	14460.7	14434.2
27.5°	13932.2	14070.5	14049.6	14151.9	14110.3
30°	13595.0	13735.2	13727.6	13820.4	13778.8
32.5°	13231.3	13381.0	13373.4	13464.3	13399.9
35°	12843.0	12990.8	12990.8	13077.9	13007.8
37.5°	12432.0	12581.6	12583.5	12666.8	12600.5
40°	11988.7	12138.3	12147.8	12227.4	12166.8
42.5°	11522.7	11685.6	11693.2	11765.2	11708.4
45°	11024.5	11191.2	11208.3	11280.3	11221.5
47.5°	10503.6	10672.2	10687.4	10765.0	10723.3
50°	9961.9	10124.8	10145.6	10210.0	10143.7
52.5°	9389.8	9556.5	9584.9	9624.7	9594.4
55°	8785.5	8961.7	9005.3	9020.4	8781.7
57.5°	8160.4	8340.4	8382.1	8033.5	7266.3
60°	7516.4	7694.4	7734.2	6535.2	5989.6
62.5°	6845.8	7020.1	7063.7	5415.7	5241.4
65°	6141.2	6330.6	5883.5	4678.8	4561.4
67.5°	5417.6	5612.7	4449.6	4010.1	3940.0
70°	4656.1	4853.1	3663.5	3419.1	3402.1
72.5°	3924.9	4070.7	3006.2	2591.3	2182.2
75°	3119.8	3316.8	2417.1	1674.5	1604.4
77.5°	2419.0	2091.3	1458.6	1227.5	968.0
80°	1723.8	1398.0	954.7	509.6	481.1
82.5°	1093.0	913.0	375.1	384.5	401.6
85°	570.2	375.1	293.6	314.4	316.3
87.5°	183.7	161.0	176.2	174.3	172.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)