

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-CLI-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 (P23766)
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-CLI-UNV-L850-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

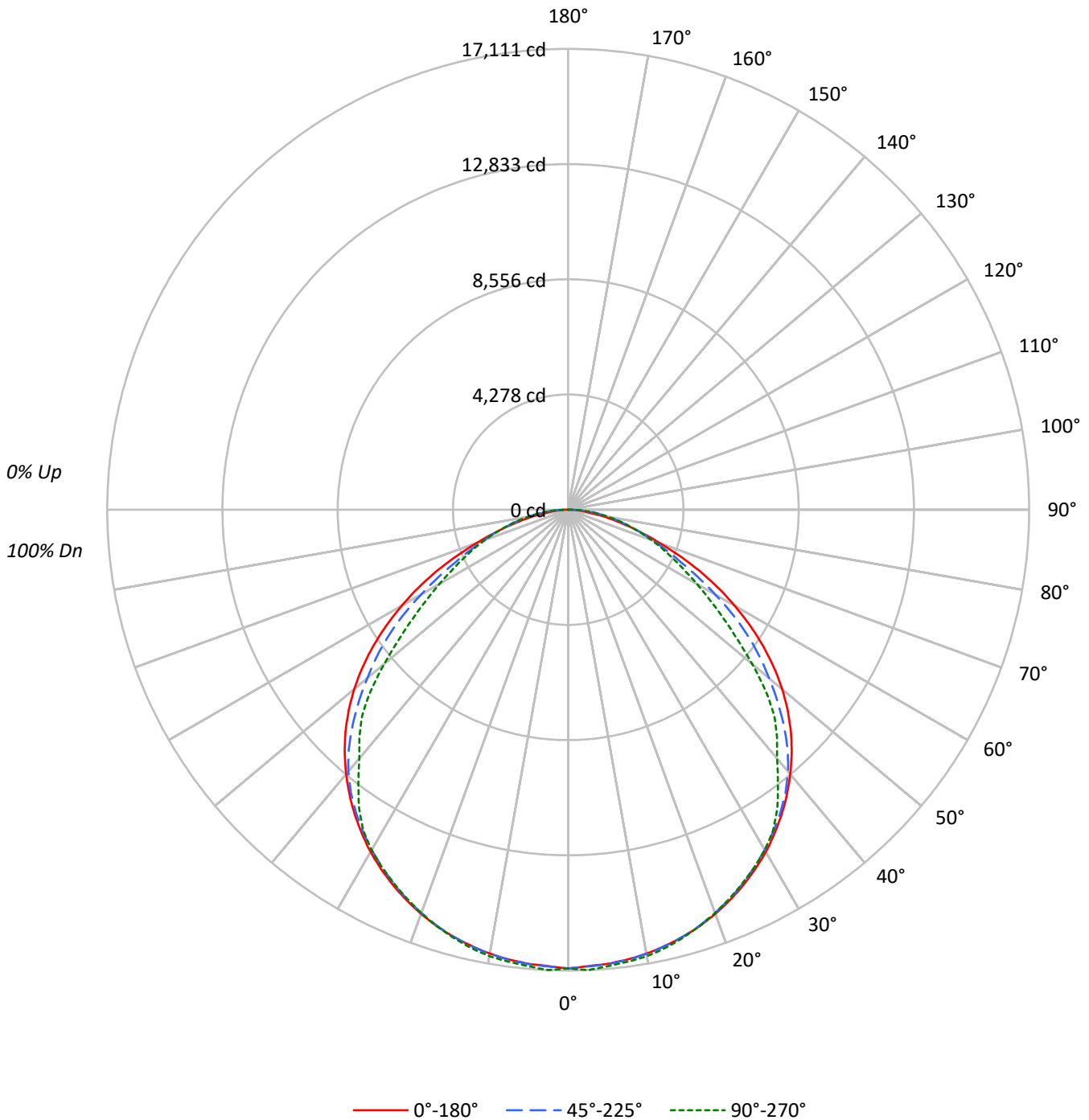
Lumens per Lamp: N/A
Luminaire Lumens: 45764.0 lumens
Efficiency: N/A
Efficacy: 159.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	22919	22919	22919
5°	22857	22874	22976
10°	22870	22881	23001
15°	22873	22870	22924
20°	22867	22814	22820
25°	22832	22747	22720
30°	22795	22658	22671
35°	22688	22547	22228
40°	22527	22297	21172
45°	22241	21529	20587
50°	21705	20383	18645
55°	20717	19062	16487
60°	19226	17009	14868
65°	17089	14726	13671
70°	14182	13161	12887
75°	11470	12044	12193
80°	9111	11519	11471
85°	7134	12375	11807



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1615.4	3.5
10°-20°	4646.5	10.2
20°-30°	7085.1	15.5
30°-40°	8571.9	18.7
40°-50°	8682.6	19.0
50°-60°	7176.4	15.7
60°-70°	4739.8	10.4
70°-80°	2471.6	5.4
80°-90°	774.8	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°	13346.9	29.2
0°-40°	21918.8	47.9
0°-60°	37777.8	82.5
0°-90°	45764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	45764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17034	17034	17034	17034	17034	
5°	16923	17025	16936	17009	17011	###
15°	16420	16504	16418	16469	16457	4637
25°	15379	15441	15322	15361	15304	7091
35°	13813	13831	13727	13709	13533	8640
45°	11688	11658	11314	10962	10819	9000
55°	8832	8701	8126	7337	7028	7872
65°	5368	5212	4626	4325	4294	5302
75°	2206	2245	2317	2348	2345	2404
85°	462	595	802	795	765	561
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17033.6	17033.6	17033.6	17033.6	17033.6
2.5°	16962.0	17062.2	16978.4	17052.0	17111.3
5°	16923.2	17025.4	16935.5	17009.1	17011.1
7.5°	16847.5	16949.8	16857.8	16931.4	16929.3
10°	16739.2	16835.3	16747.3	16835.3	16835.3
12.5°	16591.9	16686.0	16600.1	16681.9	16669.6
15°	16420.2	16504.0	16418.1	16469.2	16457.0
17.5°	16217.7	16293.4	16197.3	16240.2	16215.7
20°	15970.3	16039.8	15933.5	15988.7	15937.6
22.5°	15692.2	15757.6	15649.3	15690.2	15632.9
25°	15379.3	15440.7	15322.1	15360.9	15303.7
27.5°	15041.9	15097.1	14964.2	15011.3	14966.3
30°	14671.8	14698.4	14583.9	14645.2	14592.1
32.5°	14258.8	14275.1	14174.9	14230.1	14140.2
35°	13813.0	13831.4	13727.1	13708.7	13532.8
37.5°	13336.5	13344.7	13246.6	13080.9	12790.6
40°	12825.3	12821.2	12694.4	12312.1	12054.4
42.5°	12279.3	12277.3	12054.4	11618.9	11471.6
45°	11688.4	11657.7	11314.2	10962.5	10819.3
47.5°	11054.5	11021.8	10541.2	10261.1	9935.9
50°	10369.4	10312.2	9737.6	9355.2	8907.4
52.5°	9631.3	9543.3	8958.5	8341.0	7917.7
55°	8831.7	8700.8	8126.2	7336.9	7028.2
57.5°	7999.5	7805.2	7247.0	6478.1	6226.6
60°	7144.7	6928.0	6320.6	5688.8	5525.2
62.5°	6265.4	6050.7	5431.1	4954.7	4864.7
65°	5367.7	5212.3	4625.5	4324.9	4294.2
67.5°	4447.6	4392.3	3944.5	3791.2	3778.9
70°	3605.1	3594.9	3345.4	3267.7	3275.9
72.5°	2881.2	2868.9	2832.1	2793.3	2795.3
75°	2206.4	2245.2	2316.8	2347.5	2345.4
77.5°	1646.1	1725.9	1877.2	1938.5	1928.3
80°	1175.8	1294.4	1486.6	1543.9	1480.5
82.5°	783.2	907.9	1134.9	1143.1	1092.0
85°	462.1	595.1	801.6	795.4	764.8
87.5°	229.0	357.8	480.5	460.1	439.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)