

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-AI-UNV-L740-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 (P23765)
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-AI-UNV-L740-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

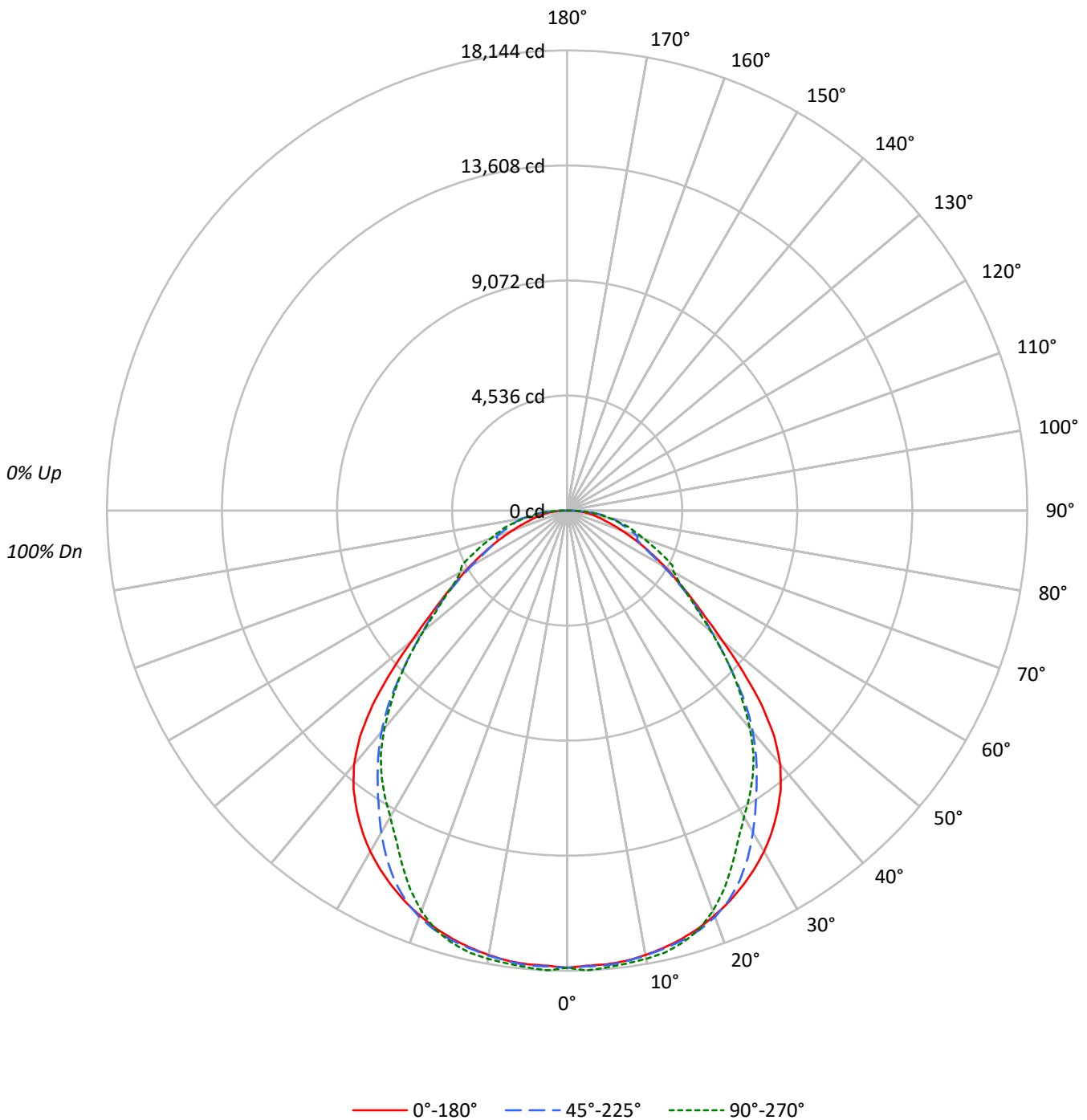
Lumens per Lamp: N/A
Luminaire Lumens: 41719.0 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24251	24251	24251
5°	24250	24302	24421
10°	24310	24341	24519
15°	24347	24438	24558
20°	24323	24413	24051
25°	24261	23898	22858
30°	24118	22771	21661
35°	23755	21402	20956
40°	22961	20010	19681
45°	20637	17869	17802
50°	16739	15564	15457
55°	13899	13640	13635
60°	12034	11682	13061
65°	10429	10364	13165
70°	8993	11626	12550
75°	8064	11915	13082
80°	8381	14027	13126
85°	9516	16163	14998



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1716.1	4.1
10°-20°	4956.3	11.9
20°-30°	7361.1	17.6
30°-40°	8356.9	20.0
40°-50°	7470.7	17.9
50°-60°	5165.3	12.4
60°-70°	3408.4	8.2
70°-80°	2299.4	5.5
80°-90°	984.8	2.4
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°	14033.5	33.6
0°-40°	22390.4	53.7
0°-60°	35026.4	84.0
0°-90°	41719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	41719.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18024	18024	18024	18024	18024	
5°	17954	18065	17993	18067	18081	###
15°	17479	17563	17544	17642	17630	4934
25°	16342	16497	16097	15618	15397	7530
35°	14462	14158	13030	12840	12758	9019
45°	10846	9927	9391	9462	9356	8248
55°	5925	5409	5815	5733	5813	5382
65°	3276	2908	3255	3806	4135	3269
75°	1551	1951	2292	2449	2516	1694
85°	616	857	1047	1053	972	643
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18023.9	18023.9	18023.9	18023.9	18023.9
2.5°	17962.7	18074.9	17991.2	18068.8	18144.3
5°	17954.5	18064.7	17993.3	18066.8	18081.0
7.5°	17903.5	18005.5	17921.8	17993.3	18009.6
10°	17793.3	17913.7	17815.7	17925.9	17946.3
12.5°	17650.4	17772.9	17687.1	17838.2	17846.3
15°	17479.0	17562.6	17544.3	17642.2	17630.0
17.5°	17262.6	17358.5	17344.3	17368.7	17311.6
20°	16987.1	17095.3	17050.4	16938.1	16797.3
22.5°	16691.1	16821.8	16644.2	16360.5	16162.5
25°	16342.1	16497.2	16097.2	15617.6	15397.2
27.5°	15956.4	16095.2	15429.8	14842.0	14613.4
30°	15523.7	15582.9	14656.3	14097.1	13941.9
32.5°	15023.7	14937.9	13829.7	13460.3	13370.5
35°	14462.4	14158.3	13029.6	12839.8	12758.2
37.5°	13829.7	13272.5	12239.8	12152.0	12066.3
40°	13072.5	12250.0	11392.8	11335.6	11205.0
42.5°	12094.8	11137.6	10451.9	10384.5	10268.2
45°	10845.8	9927.3	9390.6	9462.0	9355.9
47.5°	9408.9	8712.9	8372.1	8568.0	8372.1
50°	7996.6	7529.2	7435.3	7612.9	7384.3
52.5°	6839.3	6418.9	6612.8	6643.4	6506.6
55°	5925.0	5408.6	5814.8	5733.1	5812.7
57.5°	5129.0	4551.4	5051.4	4957.5	5231.0
60°	4471.8	3822.8	4341.2	4320.8	4853.5
62.5°	3826.8	3308.4	3724.8	4024.8	4680.0
65°	3275.8	2908.4	3255.4	3806.4	4135.0
67.5°	2747.2	2608.4	2977.8	3283.9	3643.2
70°	2285.9	2357.3	2955.3	2898.2	3190.1
72.5°	1898.1	2141.0	2608.4	2618.6	2824.7
75°	1551.1	1951.2	2292.0	2449.2	2516.5
77.5°	1289.9	1769.5	2069.6	2124.7	2059.3
80°	1081.7	1559.3	1810.3	1785.9	1694.0
82.5°	873.5	1181.7	1426.6	1449.1	1340.9
85°	616.4	857.2	1047.0	1053.1	971.5
87.5°	330.6	528.6	634.7	653.1	604.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)