

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-WG-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48HE-W-WG-UNV-L735-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

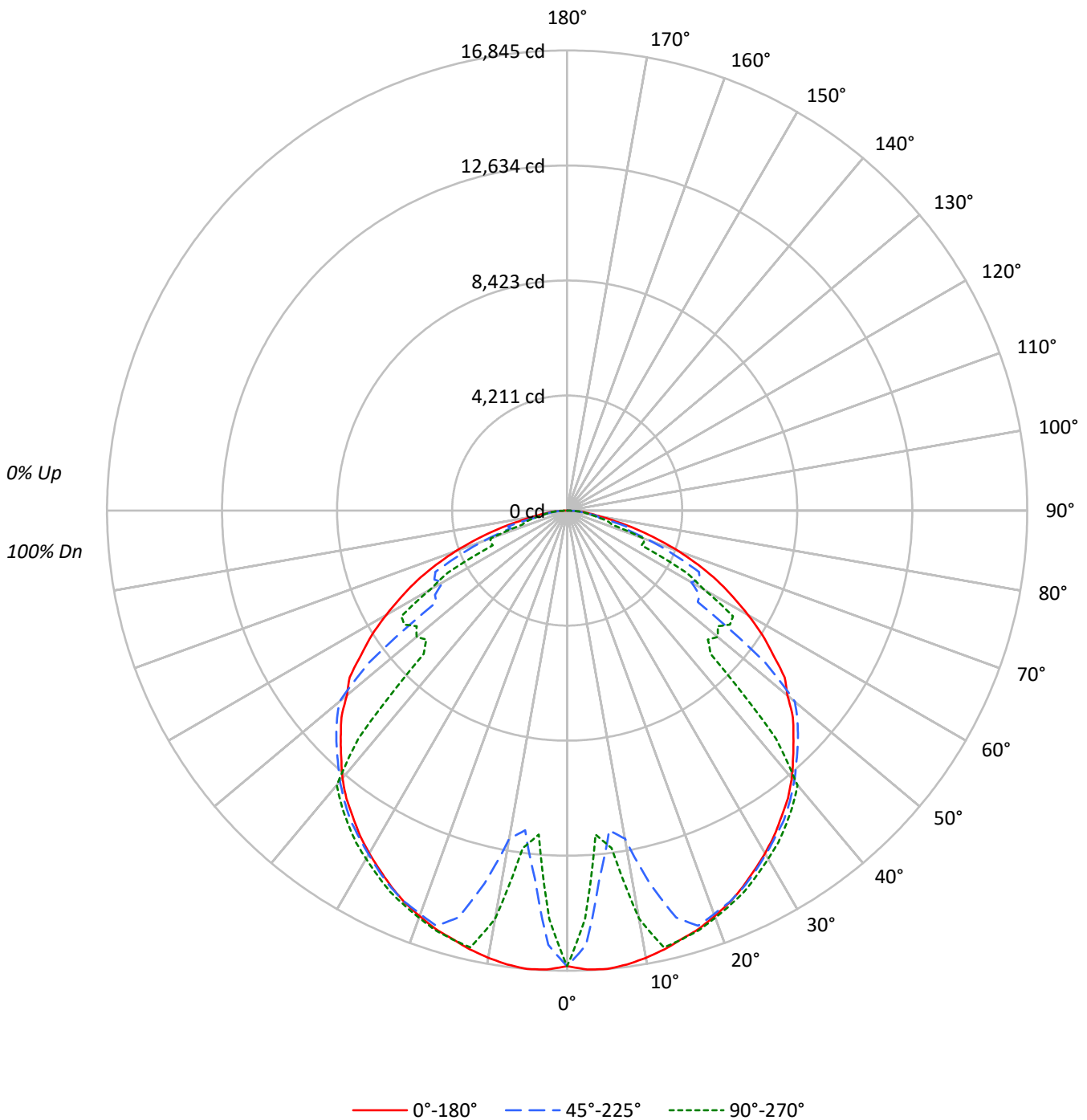
Lumens per Lamp: N/A
Luminaire Lumens: 44182.0 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	22439	22439	22439
5°	22751	18277	16074
10°	22712	16669	20731
15°	22611	21483	22631
20°	22611	22509	22709
25°	22571	22621	22829
30°	22506	22580	22871
35°	22470	22719	22984
40°	22473	22718	23044
45°	22297	22733	14127
50°	22044	22779	15056
55°	21579	13697	17065
60°	20585	14119	15627
65°	19288	16951	9561
70°	17031	12842	11720
75°	13570	11673	8127
80°	9348	8436	6984
85°	8959	7788	7389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1333.6	3.0
10°-20°	4178.0	9.5
20°-30°	6873.7	15.6
30°-40°	8642.7	19.6
40°-50°	8476.4	19.2
50°-60°	7023.1	15.9
60°-70°	4953.5	11.2
70°-80°	2161.2	4.9
80°-90°	539.9	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°	12385.2	28.0
0°-40°	21027.9	47.6
0°-60°	36527.4	82.7
0°-90°	44182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	44182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16677	16677	16677	16677	16677	
5°	16845	15678	13532	12270	11901	###
15°	16233	11273	15423	16296	16246	4590
25°	15204	13911	15238	15339	15377	7008
35°	13680	13672	13832	13923	13993	8571
45°	11718	11754	11947	10581	7424	9045
55°	9199	9500	5839	6639	7275	8231
65°	6058	6415	5324	4096	3003	5957
75°	2610	2558	2245	1468	1563	2799
85°	580	516	504	483	479	602
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16677.3	16677.3	16677.3	16677.3	16677.3
2.5°	16814.9	16465.9	15911.5	15213.5	14966.3
5°	16844.8	15678.2	13532.5	12270.1	11901.2
7.5°	16759.0	14248.4	11797.5	12062.8	12453.6
10°	16623.4	12992.0	12200.4	14354.1	15173.7
12.5°	16449.9	11875.3	13977.2	16214.6	16378.1
15°	16232.6	11273.1	15422.9	16296.4	16246.5
17.5°	16049.1	11626.0	15941.4	16132.9	16097.0
20°	15791.9	12330.0	15720.1	15873.6	15859.7
22.5°	15532.6	13163.5	15510.7	15620.4	15620.4
25°	15203.6	13911.4	15237.5	15339.2	15377.1
27.5°	14842.6	14342.1	14896.5	14980.2	15048.0
30°	14485.7	14403.9	14533.5	14641.2	14721.0
32.5°	14108.8	14076.9	14178.6	14292.2	14393.9
35°	13680.0	13672.1	13831.6	13923.3	13993.1
37.5°	13277.2	13249.3	13396.9	13524.5	13578.3
40°	12794.6	12794.6	12934.2	13063.8	13119.7
42.5°	12244.2	12322.0	12429.7	12563.3	11314.9
45°	11717.8	11753.7	11947.1	10581.1	7424.3
47.5°	11211.2	11257.1	11440.6	6802.1	6987.6
50°	10531.2	10738.6	10882.2	6782.2	7193.0
52.5°	10034.7	10124.4	9135.3	6714.4	6945.7
55°	9199.1	9500.2	5838.9	6638.6	7274.7
57.5°	8485.2	8704.6	5741.2	6802.1	7197.0
60°	7649.6	7984.7	5246.7	6562.8	5807.0
62.5°	6848.0	7167.1	5478.0	5164.9	4917.6
65°	6058.3	6415.3	5324.4	4096.0	3003.2
67.5°	5192.8	4859.8	4247.6	2885.6	3037.1
70°	4329.3	3394.1	3264.5	3226.6	2979.3
72.5°	3441.9	2476.8	2167.7	2420.9	1732.9
75°	2610.4	2558.5	2245.4	1467.7	1563.4
77.5°	1810.7	1846.6	1202.5	1431.8	1188.5
80°	1206.5	1044.9	1088.8	913.3	901.4
82.5°	835.6	853.5	715.9	694.0	703.9
85°	580.3	516.5	504.5	482.6	478.6
87.5°	193.4	225.3	209.4	189.4	201.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)