

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-WG-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48SE-W-WG-UNV-L740-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

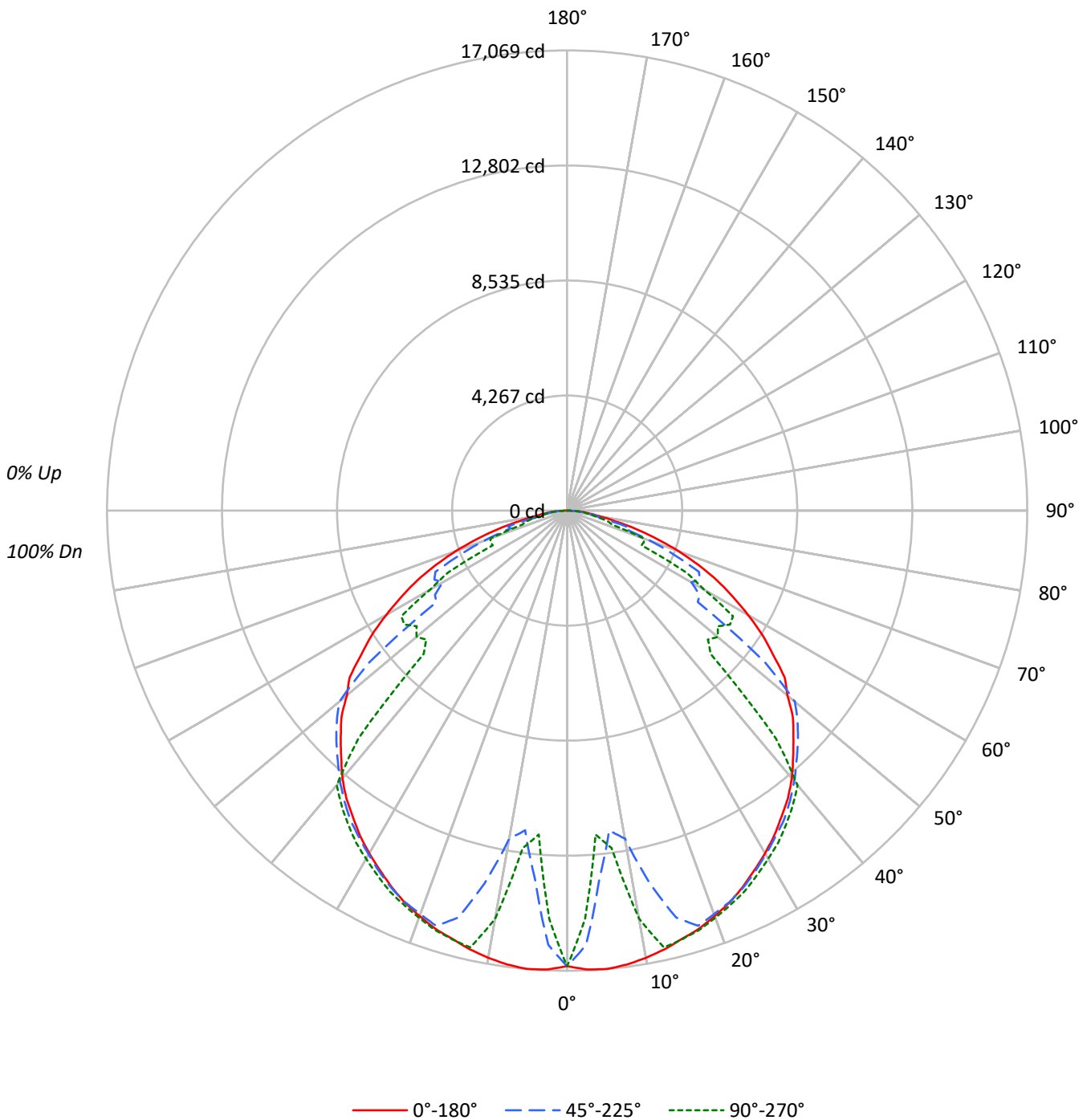
Lumens per Lamp: N/A
Luminaire Lumens: 44770.0 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	22738	22738	22738
5°	23054	18521	16288
10°	23014	16890	21007
15°	22912	21769	22932
20°	22912	22808	23011
25°	22871	22922	23132
30°	22805	22880	23175
35°	22769	23021	23290
40°	22772	23020	23350
45°	22593	23036	14315
50°	22337	23082	15257
55°	21866	13879	17292
60°	20859	14307	15835
65°	19544	17177	9689
70°	17258	13013	11876
75°	13751	11828	8236
80°	9472	8549	7077
85°	9077	7892	7487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1351.3	3.0
10°-20°	4233.6	9.5
20°-30°	6965.1	15.6
30°-40°	8757.7	19.6
40°-50°	8589.2	19.2
50°-60°	7116.5	15.9
60°-70°	5019.4	11.2
70°-80°	2189.9	4.9
80°-90°	547.1	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°	12550.1	28.0
0°-40°	21307.8	47.6
0°-60°	37013.5	82.7
0°-90°	44770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	44770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16899	16899	16899	16899	16899	
5°	17069	15887	13713	12433	12060	###
15°	16449	11423	15628	16513	16463	4651
25°	15406	14096	15440	15543	15582	7101
35°	13862	13854	14016	14109	14179	8685
45°	11874	11910	12106	10722	7523	9165
55°	9322	9627	5917	6727	7372	8340
65°	6139	6501	5395	4150	3043	6036
75°	2645	2593	2275	1487	1584	2837
85°	588	523	511	489	485	610
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16899.2	16899.2	16899.2	16899.2	16899.2
2.5°	17038.6	16685.0	16123.3	15416.0	15165.4
5°	17069.0	15886.8	13712.6	12433.4	12059.6
7.5°	16982.1	14438.0	11954.5	12223.3	12619.4
10°	16844.7	13164.9	12362.7	14545.1	15375.6
12.5°	16668.9	12033.3	14163.2	16430.4	16596.1
15°	16448.6	11423.1	15628.2	16513.3	16462.7
17.5°	16262.7	11780.8	16153.6	16347.6	16311.2
20°	16002.0	12494.1	15929.3	16084.9	16070.7
22.5°	15739.3	13338.7	15717.1	15828.2	15828.2
25°	15405.9	14096.5	15440.3	15543.3	15581.7
27.5°	15040.2	14533.0	15094.7	15179.6	15248.3
30°	14678.5	14595.6	14727.0	14836.1	14916.9
32.5°	14296.5	14264.2	14367.3	14482.4	14585.5
35°	13862.1	13854.0	14015.7	14108.6	14179.3
37.5°	13453.9	13425.6	13575.1	13704.5	13759.0
40°	12964.9	12964.9	13106.3	13237.7	13294.3
42.5°	12407.2	12486.0	12595.1	12730.5	11465.5
45°	11873.7	11910.1	12106.1	10721.9	7523.1
47.5°	11360.4	11406.9	11592.8	6892.7	7080.6
50°	10671.4	10881.5	11027.0	6872.4	7288.7
52.5°	10168.2	10259.2	9256.9	6803.7	7038.1
55°	9321.5	9626.7	5916.6	6727.0	7371.6
57.5°	8598.1	8820.4	5817.6	6892.7	7292.8
60°	7751.5	8090.9	5316.5	6650.2	5884.3
62.5°	6939.1	7262.4	5550.9	5233.6	4983.1
65°	6138.9	6500.6	5395.3	4150.5	3043.2
67.5°	5261.9	4924.5	4304.1	2924.0	3077.5
70°	4387.0	3439.3	3307.9	3269.5	3018.9
72.5°	3487.7	2509.7	2196.5	2453.1	1756.0
75°	2645.1	2592.6	2275.3	1487.2	1584.2
77.5°	1834.8	1871.2	1218.5	1450.9	1204.3
80°	1222.5	1058.9	1103.3	925.5	913.4
82.5°	846.7	864.9	725.4	703.2	713.3
85°	588.0	523.4	511.2	489.0	485.0
87.5°	196.0	228.3	212.2	192.0	204.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)