

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-LD5-18HE-N-CL-UNV-L750-ED2-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 (P23768)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-N-CL-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

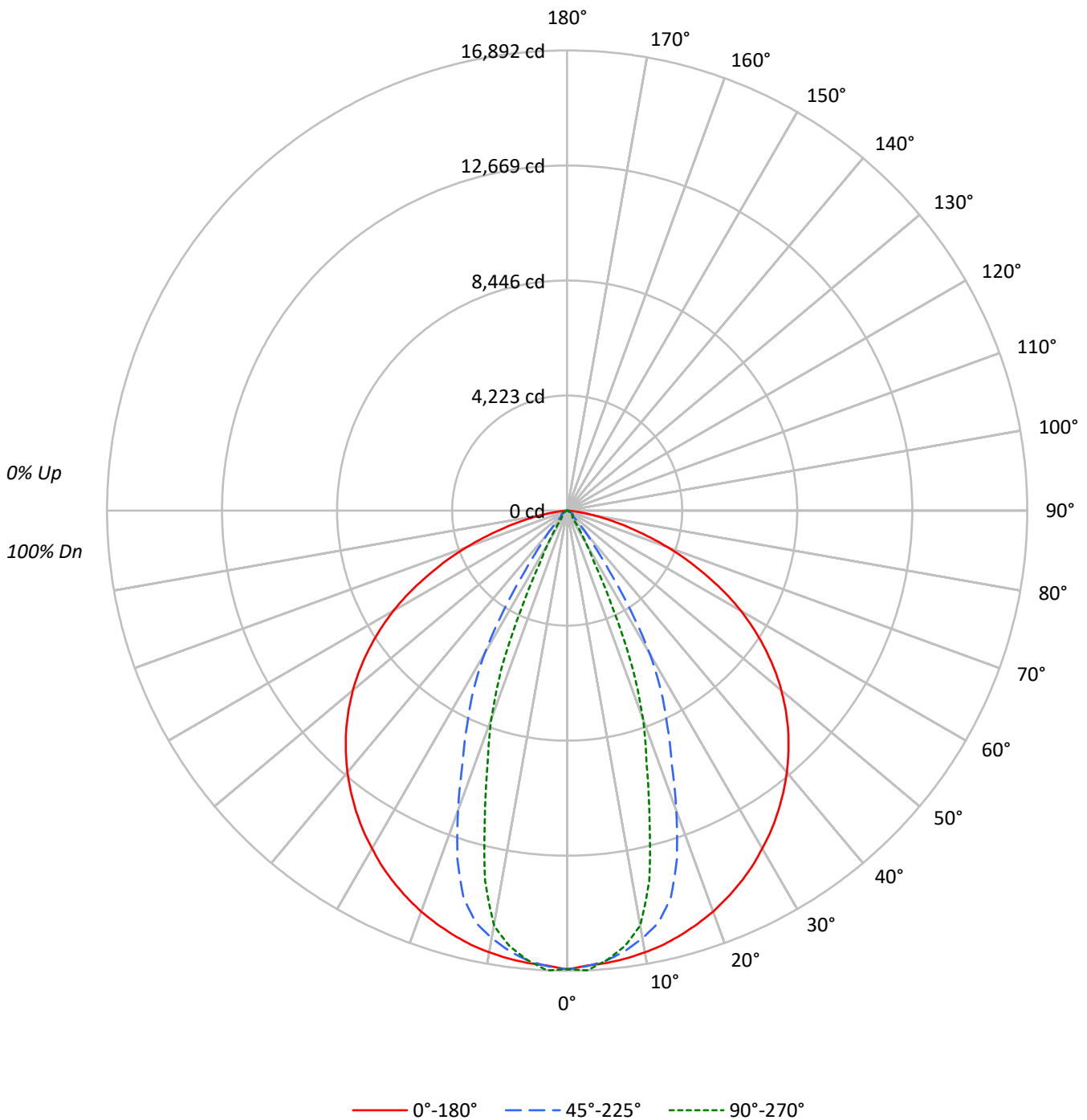
Lumens per Lamp: N/A
Luminaire Lumens: 18006.0 lumens
Efficiency: N/A
Efficacy: 160.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 111.9
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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22653	22653	22653
5°	22513	22396	22380
10°	22499	21777	21134
15°	22473	20478	16250
20°	22429	16758	11656
25°	22359	12912	5923
30°	22253	9423	2155
35°	22173	4327	750
40°	22037	1964	517
45°	21841	733	525
50°	21493	532	552
55°	20856	560	420
60°	19820	598	371
65°	17974	455	302
70°	15411	329	278
75°	11779	291	264
80°	7369	274	287
85°	2328	320	386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1567.4	8.7
10°-20°	3948.5	21.9
20°-30°	4300.1	23.9
30°-40°	3216.7	17.9
40°-50°	2312.9	12.8
50°-60°	1420.4	7.9
60°-70°	817.4	4.5
70°-80°	364.8	2.0
80°-90°	57.9	0.3
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°	9816.0	54.5
0°-40°	13032.7	72.4
0°-60°	16766.0	93.1
0°-90°	18006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18006.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16836	16836	16836	16836	16836	
5°	16669	16747	16582	16597	16570	###
15°	16133	15824	14701	12626	11666	4554
25°	15060	13980	8697	5580	3990	6942
35°	13499	9682	2635	774	457	8444
45°	11478	5440	385	285	276	8842
55°	8891	1130	239	231	179	7927
65°	5646	124	143	119	95	5588
75°	2266	75	56	58	51	2459
85°	151	15	21	27	25	300
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16836.1	16836.1	16836.1	16836.1	16836.1
2.5°	16718.9	16828.3	16736.1	16818.9	16892.1
5°	16668.9	16747.3	16581.9	16597.4	16569.9
7.5°	16582.8	16601.7	16302.8	16187.4	16131.4
10°	16467.4	16416.5	15939.2	15664.4	15468.8
12.5°	16321.8	16153.8	15486.9	14505.6	13920.7
15°	16133.1	15823.8	14701.2	12625.8	11666.0
17.5°	15908.2	15479.2	13400.3	10522.8	9692.3
20°	15664.4	15098.4	11703.9	8947.0	8140.6
22.5°	15376.6	14611.6	10030.8	7441.1	6334.0
25°	15060.5	13980.1	8697.2	5580.2	3989.8
27.5°	14719.3	13147.0	7462.6	3422.0	2157.3
30°	14323.0	12133.0	6065.2	1920.4	1387.1
32.5°	13936.2	10951.0	4332.7	1279.4	886.5
35°	13499.4	9681.9	2634.6	774.5	456.6
37.5°	13036.7	8528.3	1649.0	421.3	315.3
40°	12546.5	7434.2	1118.3	299.0	294.6
42.5°	12022.7	6444.3	700.4	284.3	293.8
45°	11478.2	5439.7	385.1	285.2	275.7
47.5°	10887.2	4349.0	268.8	269.7	268.8
50°	10267.8	3119.6	254.2	266.2	263.6
52.5°	9600.1	1936.7	255.0	260.2	233.5
55°	8891.0	1130.3	238.6	230.9	179.2
57.5°	8145.8	704.7	233.5	190.4	161.1
60°	7365.2	372.2	222.3	171.4	137.8
62.5°	6533.9	183.5	178.3	146.5	112.9
65°	5645.6	124.1	143.0	118.9	94.8
67.5°	4787.5	112.0	107.7	97.4	82.7
70°	3917.4	102.5	83.6	85.3	70.6
72.5°	3063.6	93.0	67.2	73.2	59.4
75°	2265.8	75.0	56.0	57.7	50.8
77.5°	1576.6	58.6	43.9	49.1	47.4
80°	951.1	37.0	35.3	40.5	37.0
82.5°	460.9	24.1	27.6	31.9	29.3
85°	150.8	14.6	20.7	26.7	25.0
87.5°	19.0	8.6	17.2	23.3	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)