

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-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 (P23767)
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-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

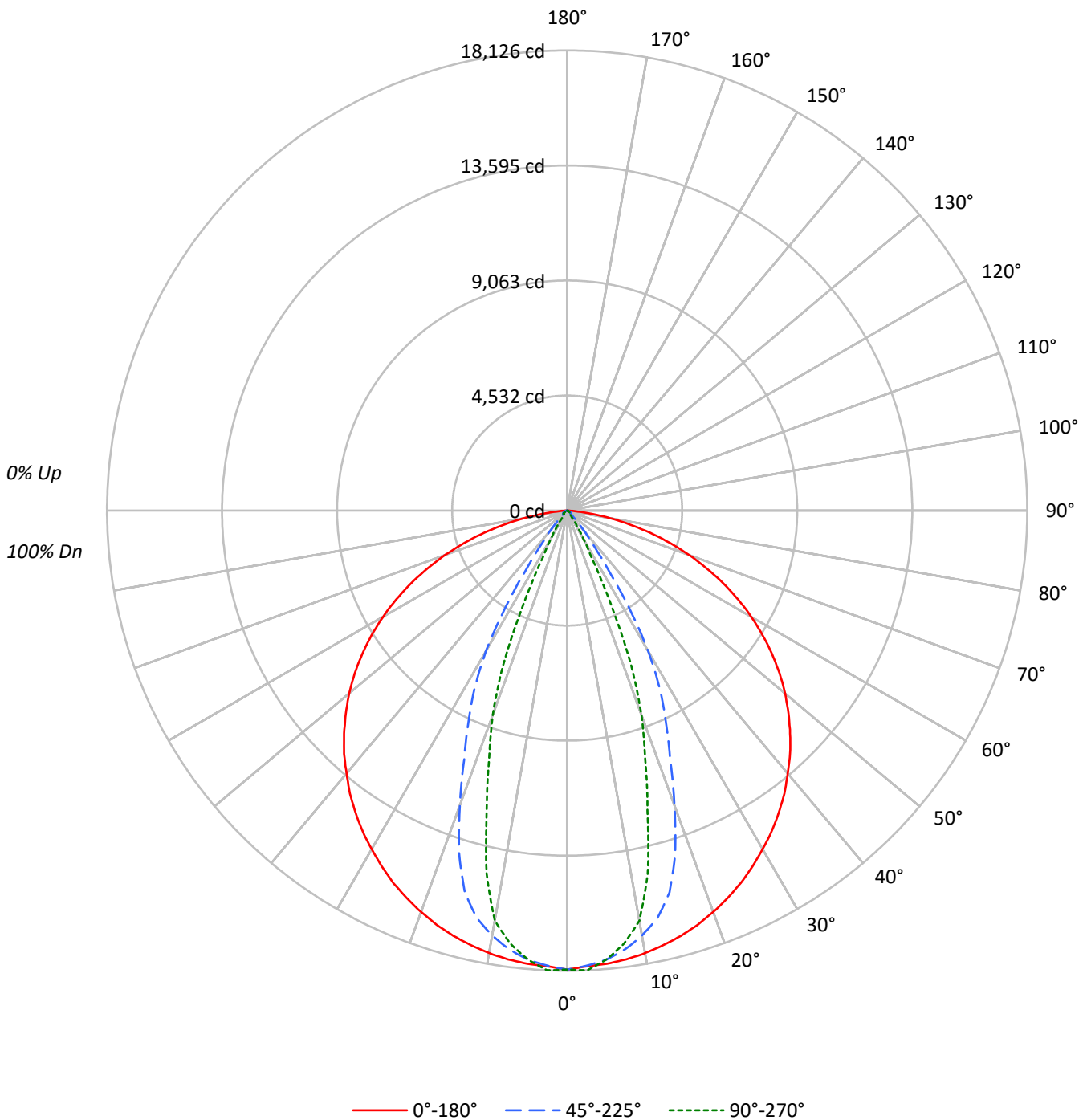
Lumens per Lamp: N/A
Luminaire Lumens: 19219.0 lumens
Efficiency: N/A
Efficacy: 171.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24329	24329	24329
5°	24199	23985	23975
10°	24184	23217	22402
15°	24150	21690	17049
20°	24094	17682	12272
25°	24032	13672	6046
30°	23926	9936	1961
35°	23870	4408	504
40°	23745	1790	340
45°	23638	503	362
50°	23454	356	401
55°	23116	424	171
60°	22546	472	104
65°	21619	301	123
70°	20084	268	152
75°	17570	201	210
80°	13137	246	300
85°	6507	318	398



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1678.0	8.7
10°-20°	4195.9	21.8
20°-30°	4544.9	23.6
30°-40°	3365.7	17.5
40°-50°	2424.2	12.6
50°-60°	1501.0	7.8
60°-70°	923.1	4.8
70°-80°	486.6	2.5
80°-90°	99.6	0.5
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°	10418.8	54.2
0°-40°	13784.5	71.7
0°-60°	17709.7	92.1
0°-90°	19219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19219.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18082	18082	18082	18082	18082	
5°	17917	17983	17759	17772	17751	###
15°	17337	16935	15571	13242	12240	4894
25°	16188	14828	9209	5793	4072	7459
35°	14532	10245	2684	631	307	9092
45°	12423	5772	264	191	190	9581
55°	9854	1189	181	163	73	8797
65°	6790	126	95	60	39	6700
75°	3380	29	39	51	40	3570
85°	422	11	21	31	26	637
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18082.1	18082.1	18082.1	18082.1	18082.1
2.5°	17966.0	18080.4	17945.3	18046.0	18126.0
5°	17917.0	17983.2	17758.7	17771.6	17750.9
7.5°	17830.9	17815.4	17437.8	17272.7	17200.4
10°	17701.0	17598.7	16993.1	16648.2	16397.0
12.5°	17533.3	17304.5	16438.3	15341.5	14660.3
15°	17337.2	16934.6	15571.2	13241.8	12239.7
17.5°	17103.2	16532.9	14153.6	11098.2	10203.6
20°	16827.1	16084.7	12348.9	9442.3	8571.0
22.5°	16519.1	15539.4	10595.9	7847.5	6604.6
25°	16188.0	14828.0	9209.2	5793.4	4072.2
27.5°	15805.2	13913.6	7908.6	3412.4	2078.2
30°	15400.0	12812.6	6395.5	1835.7	1261.9
32.5°	14991.4	11564.4	4525.5	1146.6	715.7
35°	14532.1	10244.9	2683.8	631.4	307.1
37.5°	14053.0	9035.5	1586.2	287.3	197.0
40°	13518.8	7930.1	1019.3	191.0	193.5
42.5°	13002.7	6899.6	573.7	188.4	191.8
45°	12422.9	5771.9	264.1	191.0	190.1
47.5°	11823.3	4602.9	171.2	192.7	192.7
50°	11204.9	3291.1	170.3	197.0	191.8
52.5°	10552.0	2053.3	177.2	196.1	157.4
55°	9854.4	1188.8	180.6	163.4	73.1
57.5°	9131.8	701.1	182.4	93.8	41.3
60°	8378.3	387.9	175.5	69.7	38.7
62.5°	7601.5	184.9	138.5	65.4	37.8
65°	6790.4	125.6	94.6	60.2	38.7
67.5°	5948.2	97.2	74.8	56.8	39.6
70°	5105.2	72.3	68.0	56.8	38.7
72.5°	4248.5	49.0	56.8	57.6	38.7
75°	3379.7	29.2	38.7	50.8	40.4
77.5°	2518.6	18.1	30.1	52.5	49.0
80°	1695.4	15.5	31.8	49.0	38.7
82.5°	995.2	13.8	31.0	37.8	31.0
85°	421.5	11.2	20.6	31.0	25.8
87.5°	79.1	9.5	16.3	24.9	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)