

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-L735-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-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

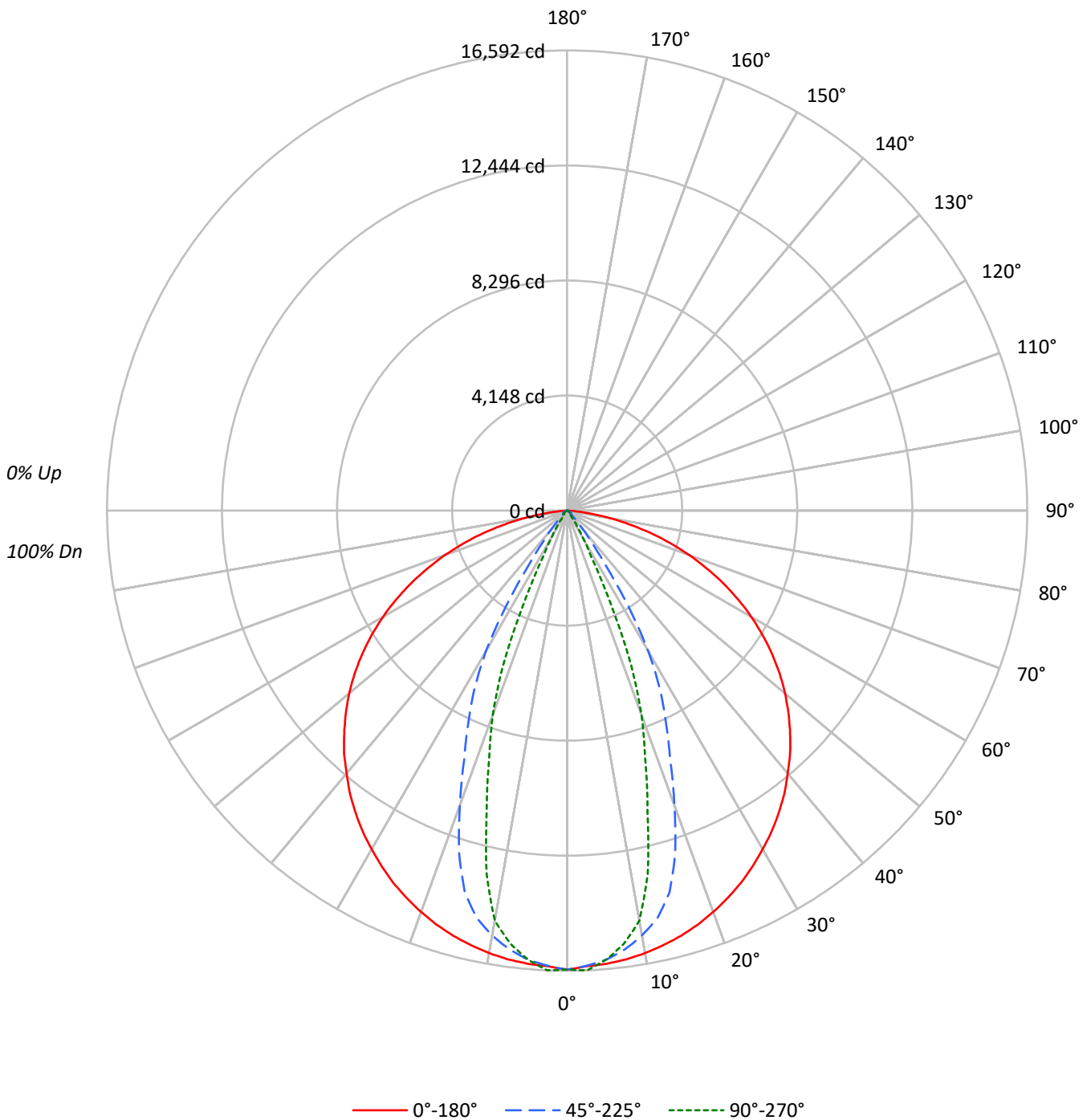
Lumens per Lamp: N/A
Luminaire Lumens: 17592.0 lumens
Efficiency: N/A
Efficacy: 157.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22270	22270	22270
5°	22151	21955	21945
10°	22137	21251	20506
15°	22105	19854	15606
20°	22054	16185	11233
25°	21998	12514	5534
30°	21901	9095	1795
35°	21849	4035	462
40°	21734	1639	311
45°	21637	460	331
50°	21469	326	368
55°	21159	388	157
60°	20637	432	95
65°	19788	276	113
70°	18384	245	139
75°	16082	184	192
80°	12025	225	274
85°	5956	292	364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1536.0	8.7
10°-20°	3840.7	21.8
20°-30°	4160.1	23.6
30°-40°	3080.7	17.5
40°-50°	2218.9	12.6
50°-60°	1373.9	7.8
60°-70°	845.0	4.8
70°-80°	445.4	2.5
80°-90°	91.2	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°	9536.8	54.2
0°-40°	12617.6	71.7
0°-60°	16210.4	92.1
0°-90°	17592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17592.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16551	16551	16551	16551	16551	
5°	16400	16461	16255	16267	16248	###
15°	15870	15501	14253	12121	11204	4480
25°	14818	13573	8430	5303	3727	6827
35°	13302	9378	2457	578	281	8322
45°	11371	5283	242	175	174	8770
55°	9020	1088	165	150	67	8052
65°	6216	115	87	55	35	6133
75°	3094	27	35	46	37	3267
85°	386	10	19	28	24	583
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16551.4	16551.4	16551.4	16551.4	16551.4
2.5°	16445.1	16549.8	16426.2	16518.3	16591.5
5°	16400.2	16460.8	16255.3	16267.1	16248.2
7.5°	16321.4	16307.3	15961.6	15810.4	15744.3
10°	16202.5	16108.8	15554.5	15238.8	15008.9
12.5°	16049.0	15839.6	15046.7	14042.8	13419.2
15°	15869.5	15501.0	14253.0	12120.8	11203.5
17.5°	15655.3	15133.3	12955.4	10158.7	9339.8
20°	15402.6	14723.1	11303.5	8643.0	7845.4
22.5°	15120.7	14223.9	9698.9	7183.2	6045.4
25°	14817.6	13572.7	8429.6	5303.0	3727.4
27.5°	14467.2	12735.7	7239.1	3123.5	1902.3
30°	14096.3	11727.9	5854.1	1680.3	1155.1
32.5°	13722.3	10585.4	4142.4	1049.6	655.1
35°	13301.9	9377.6	2456.6	577.9	281.1
37.5°	12863.3	8270.6	1451.9	263.0	180.3
40°	12374.3	7258.8	933.0	174.8	177.2
42.5°	11901.9	6315.5	525.2	172.4	175.6
45°	11371.2	5283.3	241.7	174.8	174.0
47.5°	10822.4	4213.2	156.7	176.4	176.4
50°	10256.3	3012.5	155.9	180.3	175.6
52.5°	9658.7	1879.5	162.2	179.5	144.1
55°	9020.1	1088.1	165.3	149.6	66.9
57.5°	8358.7	641.7	166.9	85.8	37.8
60°	7669.0	355.1	160.6	63.8	35.4
62.5°	6958.0	169.3	126.8	59.8	34.6
65°	6215.5	115.0	86.6	55.1	35.4
67.5°	5444.7	89.0	68.5	52.0	36.2
70°	4673.1	66.1	62.2	52.0	35.4
72.5°	3888.8	44.9	52.0	52.8	35.4
75°	3093.6	26.8	35.4	46.5	37.0
77.5°	2305.4	16.5	27.6	48.0	44.9
80°	1551.9	14.2	29.1	44.9	35.4
82.5°	911.0	12.6	28.3	34.6	28.3
85°	385.8	10.2	18.9	28.3	23.6
87.5°	72.4	8.7	15.0	22.8	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)