

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

Luminaire Equipment: Sample No. Condition Description

Summary

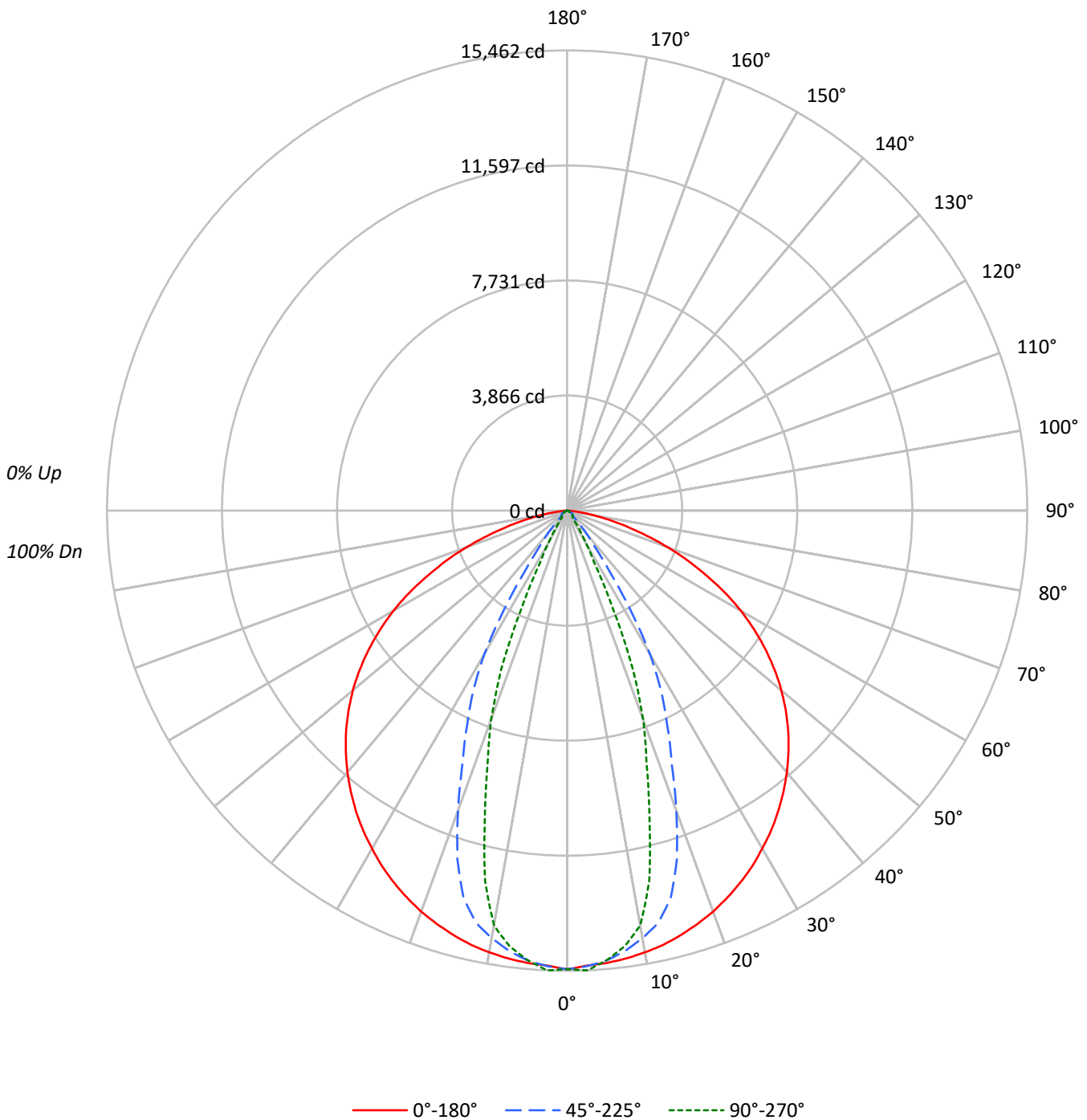
Lumens per Lamp: N/A
Luminaire Lumens: 16482.0 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20735	20735	20735
5°	20608	20501	20486
10°	20594	19934	19345
15°	20571	18745	14875
20°	20531	15340	10669
25°	20466	11819	5422
30°	20369	8625	1973
35°	20297	3961	687
40°	20172	1798	474
45°	19992	671	480
50°	19673	487	505
55°	19091	512	385
60°	18142	548	340
65°	16453	417	276
70°	14106	301	255
75°	10782	267	242
80°	6746	250	263
85°	2130	292	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1434.8	8.7
10°-20°	3614.3	21.9
20°-30°	3936.1	23.9
30°-40°	2944.4	17.9
40°-50°	2117.1	12.8
50°-60°	1300.2	7.9
60°-70°	748.2	4.5
70°-80°	333.9	2.0
80°-90°	53.0	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°	8985.2	54.5
0°-40°	11929.6	72.4
0°-60°	15346.9	93.1
0°-90°	16482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15411	15411	15411	15411	15411	
5°	15258	15330	15178	15193	15167	###
15°	14768	14484	13457	11557	10679	4169
25°	13786	12797	7961	5108	3652	6355
35°	12357	8862	2412	709	418	7730
45°	10507	4979	352	261	252	8094
55°	8138	1035	218	211	164	7256
65°	5168	114	131	109	87	5115
75°	2074	69	51	53	46	2251
85°	138	13	19	24	23	275
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15411.1	15411.1	15411.1	15411.1	15411.1
2.5°	15303.9	15404.0	15319.6	15395.3	15462.4
5°	15258.1	15329.9	15178.5	15192.7	15167.4
7.5°	15179.3	15196.6	14923.0	14817.3	14766.0
10°	15073.6	15027.1	14590.2	14338.6	14159.6
12.5°	14940.3	14786.5	14176.1	13277.9	12742.4
15°	14767.6	14484.5	13456.9	11557.1	10678.6
17.5°	14561.8	14169.0	12266.1	9632.1	8871.9
20°	14338.6	13820.5	10713.3	8189.8	7451.6
22.5°	14075.2	13374.9	9181.8	6811.3	5797.9
25°	13785.8	12796.8	7961.1	5107.9	3652.1
27.5°	13473.5	12034.3	6831.0	3132.4	1974.7
30°	13110.7	11106.1	5551.8	1757.8	1269.7
32.5°	12756.6	10024.1	3965.9	1171.1	811.5
35°	12356.8	8862.5	2411.6	709.0	418.0
37.5°	11933.3	7806.5	1509.4	385.6	288.6
40°	11484.6	6805.0	1023.6	273.6	269.7
42.5°	11005.1	5898.8	641.1	260.2	268.9
45°	10506.7	4979.3	352.5	261.0	252.4
47.5°	9965.7	3980.9	246.0	246.8	246.0
50°	9398.7	2855.6	232.6	243.7	241.3
52.5°	8787.5	1772.8	233.4	238.2	213.7
55°	8138.5	1034.7	218.4	211.3	164.0
57.5°	7456.4	645.1	213.7	174.3	147.5
60°	6741.9	340.7	203.5	156.9	126.2
62.5°	5980.9	168.0	163.2	134.1	103.3
65°	5167.8	113.6	130.9	108.8	86.7
67.5°	4382.3	102.5	98.6	89.1	75.7
70°	3585.8	93.8	76.5	78.1	64.7
72.5°	2804.3	85.2	61.5	67.0	54.4
75°	2074.1	68.6	51.3	52.8	46.5
77.5°	1443.2	53.6	40.2	45.0	43.4
80°	870.6	33.9	32.3	37.1	33.9
82.5°	421.9	22.1	25.2	29.2	26.8
85°	138.0	13.4	18.9	24.4	22.9
87.5°	17.3	7.9	15.8	21.3	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)