

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-CLI-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 (P23769)
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-CLI-UNV-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

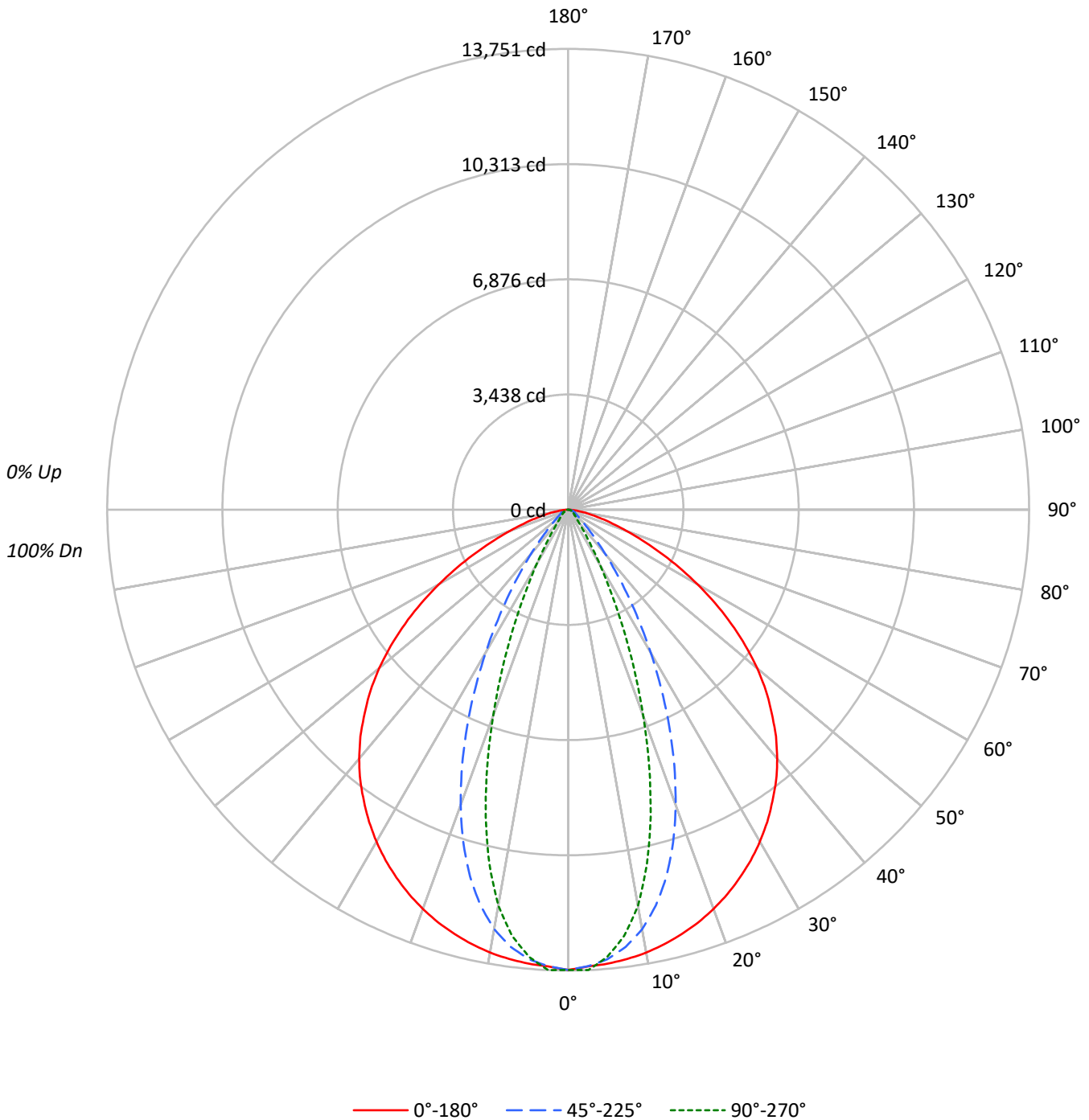
Lumens per Lamp: N/A
Luminaire Lumens: 15034.0 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18477	18477	18477
5°	18366	18183	18087
10°	18335	17360	16381
15°	18261	15780	13230
20°	18152	13427	9377
25°	17989	10588	5665
30°	17771	7641	2912
35°	17450	4996	1454
40°	17036	3001	849
45°	16328	1792	634
50°	15401	1172	533
55°	13938	889	465
60°	11978	757	424
65°	9635	691	401
70°	7259	740	399
75°	5339	703	410
80°	3906	700	449
85°	2925	849	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1264.7	8.4
10°-20°	3146.3	20.9
20°-30°	3485.0	23.2
30°-40°	2792.1	18.6
40°-50°	1993.2	13.3
50°-60°	1280.3	8.5
60°-70°	693.8	4.6
70°-80°	296.5	2.0
80°-90°	82.2	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°	7895.9	52.5
0°-40°	10688.0	71.1
0°-60°	13961.4	92.9
0°-90°	15034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13732	13732	13732	13732	13732	
5°	13598	13649	13463	13420	13392	###
15°	13110	12700	11328	10011	9498	3699
25°	12117	10684	7132	4646	3816	5582
35°	10624	7684	3042	1227	885	6642
45°	8581	4436	942	401	333	6614
55°	5942	1983	379	233	198	5295
65°	3026	814	217	150	126	3031
75°	1027	298	135	94	79	1141
85°	190	79	55	46	38	231
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13732.5	13732.5	13732.5	13732.5	13732.5
2.5°	13642.1	13727.4	13635.6	13692.7	13751.3
5°	13597.9	13648.6	13462.7	13420.0	13391.8
7.5°	13521.3	13506.8	13157.5	12931.1	12821.8
10°	13420.0	13302.8	12706.1	12208.5	11990.1
12.5°	13275.4	13033.8	12094.9	11221.2	10850.9
15°	13109.7	12699.6	11328.2	10011.1	9497.6
17.5°	12911.5	12309.0	10411.8	8713.5	8035.8
20°	12677.2	11837.4	9377.5	7334.9	6548.7
22.5°	12415.4	11293.5	8270.2	5960.7	5117.3
25°	12117.4	10684.5	7131.7	4646.4	3816.1
27.5°	11795.5	10008.2	5999.7	3471.8	2714.5
30°	11438.2	9276.3	4918.4	2503.3	1874.1
32.5°	11048.3	8498.0	3913.7	1760.5	1281.7
35°	10623.8	7684.3	3041.5	1226.7	885.3
37.5°	10189.1	6853.9	2297.2	867.2	635.1
40°	9699.4	6026.5	1708.4	635.1	483.2
42.5°	9173.5	5215.0	1264.3	488.9	391.3
45°	8581.2	4436.0	941.7	400.7	333.4
47.5°	8006.9	3709.8	715.3	341.4	290.0
50°	7357.4	3054.5	559.8	298.0	254.6
52.5°	6668.1	2478.0	454.2	262.6	224.2
55°	5941.9	1983.3	379.0	232.9	198.2
57.5°	5206.3	1571.0	324.0	207.6	176.5
60°	4451.2	1256.4	281.4	185.9	157.7
62.5°	3714.1	1004.7	245.9	167.1	141.0
65°	3026.3	814.4	217.0	149.7	125.9
67.5°	2390.5	643.7	202.5	134.5	113.6
70°	1845.1	501.2	188.1	120.1	101.3
72.5°	1398.1	384.8	166.4	107.0	89.7
75°	1027.1	298.0	135.3	94.0	78.8
77.5°	734.9	229.3	109.9	81.7	68.0
80°	504.1	170.7	90.4	70.2	57.9
82.5°	327.7	120.8	73.1	57.9	47.7
85°	189.5	78.8	55.0	45.6	37.6
87.5°	81.7	43.4	37.6	34.0	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)