

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-LD5-12HE-W-AI-UNV-L735-ED1-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 (P23765)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-W-AI-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

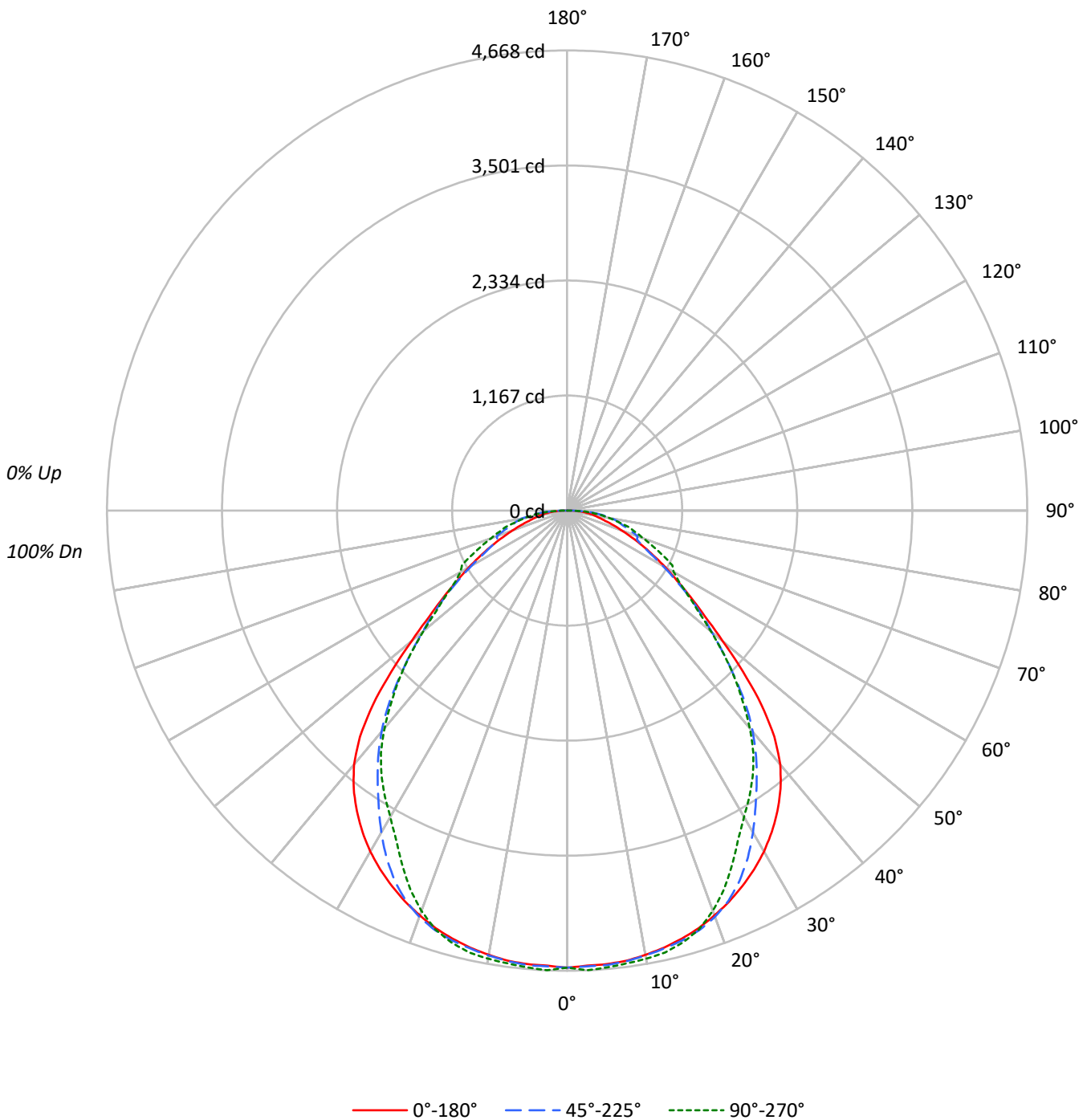
Lumens per Lamp: N/A
Luminaire Lumens: 10732.0 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6238	6238	6238
5°	6238	6252	6282
10°	6254	6262	6307
15°	6263	6287	6317
20°	6257	6280	6187
25°	6241	6148	5880
30°	6204	5858	5572
35°	6111	5505	5391
40°	5906	5148	5063
45°	5309	4597	4579
50°	4306	4004	3976
55°	3575	3509	3508
60°	3095	3005	3360
65°	2683	2666	3387
70°	2313	2991	3228
75°	2074	3065	3366
80°	2156	3608	3377
85°	2448	4157	3858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.5	4.1
10°-20°	1275.0	11.9
20°-30°	1893.6	17.6
30°-40°	2149.8	20.0
40°-50°	1921.8	17.9
50°-60°	1328.7	12.4
60°-70°	876.8	8.2
70°-80°	591.5	5.5
80°-90°	253.3	2.4
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°	3610.0	33.6
0°-40°	5759.8	53.7
0°-60°	9010.3	84.0
0°-90°	10732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10732.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4637	4637	4637	4637	4637	
5°	4619	4647	4629	4648	4651	440
15°	4496	4518	4513	4538	4535	1269
25°	4204	4244	4141	4018	3961	1937
35°	3720	3642	3352	3303	3282	2320
45°	2790	2554	2416	2434	2407	2122
55°	1524	1391	1496	1475	1495	1384
65°	843	748	837	979	1064	841
75°	399	502	590	630	647	436
85°	159	220	269	271	250	165
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4636.6	4636.6	4636.6	4636.6	4636.6
2.5°	4620.8	4649.7	4628.2	4648.1	4667.5
5°	4618.7	4647.1	4628.7	4647.6	4651.3
7.5°	4605.6	4631.8	4610.3	4628.7	4632.9
10°	4577.2	4608.2	4583.0	4611.4	4616.6
12.5°	4540.5	4572.0	4549.9	4588.8	4590.9
15°	4496.4	4517.9	4513.2	4538.4	4535.2
17.5°	4440.7	4465.4	4461.7	4468.0	4453.3
20°	4369.8	4397.7	4386.1	4357.2	4321.0
22.5°	4293.7	4327.3	4281.6	4208.7	4157.7
25°	4203.9	4243.8	4140.9	4017.5	3960.8
27.5°	4104.7	4140.4	3969.2	3818.0	3759.2
30°	3993.4	4008.6	3770.3	3626.4	3586.5
32.5°	3864.8	3842.7	3557.6	3462.6	3439.5
35°	3720.4	3642.1	3351.8	3303.0	3282.0
37.5°	3557.6	3414.3	3148.6	3126.0	3104.0
40°	3362.8	3151.2	2930.7	2916.0	2882.4
42.5°	3111.3	2865.1	2688.7	2671.4	2641.4
45°	2790.0	2553.8	2415.7	2434.0	2406.7
47.5°	2420.4	2241.4	2153.7	2204.1	2153.7
50°	2057.1	1936.8	1912.7	1958.4	1899.6
52.5°	1759.4	1651.2	1701.1	1709.0	1673.8
55°	1524.2	1391.3	1495.8	1474.8	1495.3
57.5°	1319.4	1170.8	1299.5	1275.3	1345.7
60°	1150.3	983.4	1116.7	1111.5	1248.5
62.5°	984.4	851.1	958.2	1035.4	1203.9
65°	842.7	748.2	837.4	979.2	1063.7
67.5°	706.7	671.0	766.0	844.8	937.2
70°	588.0	606.4	760.2	745.5	820.6
72.5°	488.3	550.8	671.0	673.6	726.6
75°	399.0	501.9	589.6	630.0	647.4
77.5°	331.8	455.2	532.4	546.6	529.8
80°	278.3	401.1	465.7	459.4	435.8
82.5°	224.7	304.0	367.0	372.8	344.9
85°	158.6	220.5	269.3	270.9	249.9
87.5°	85.1	136.0	163.3	168.0	155.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)