

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-CLI-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 (P23766)
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-CLI-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

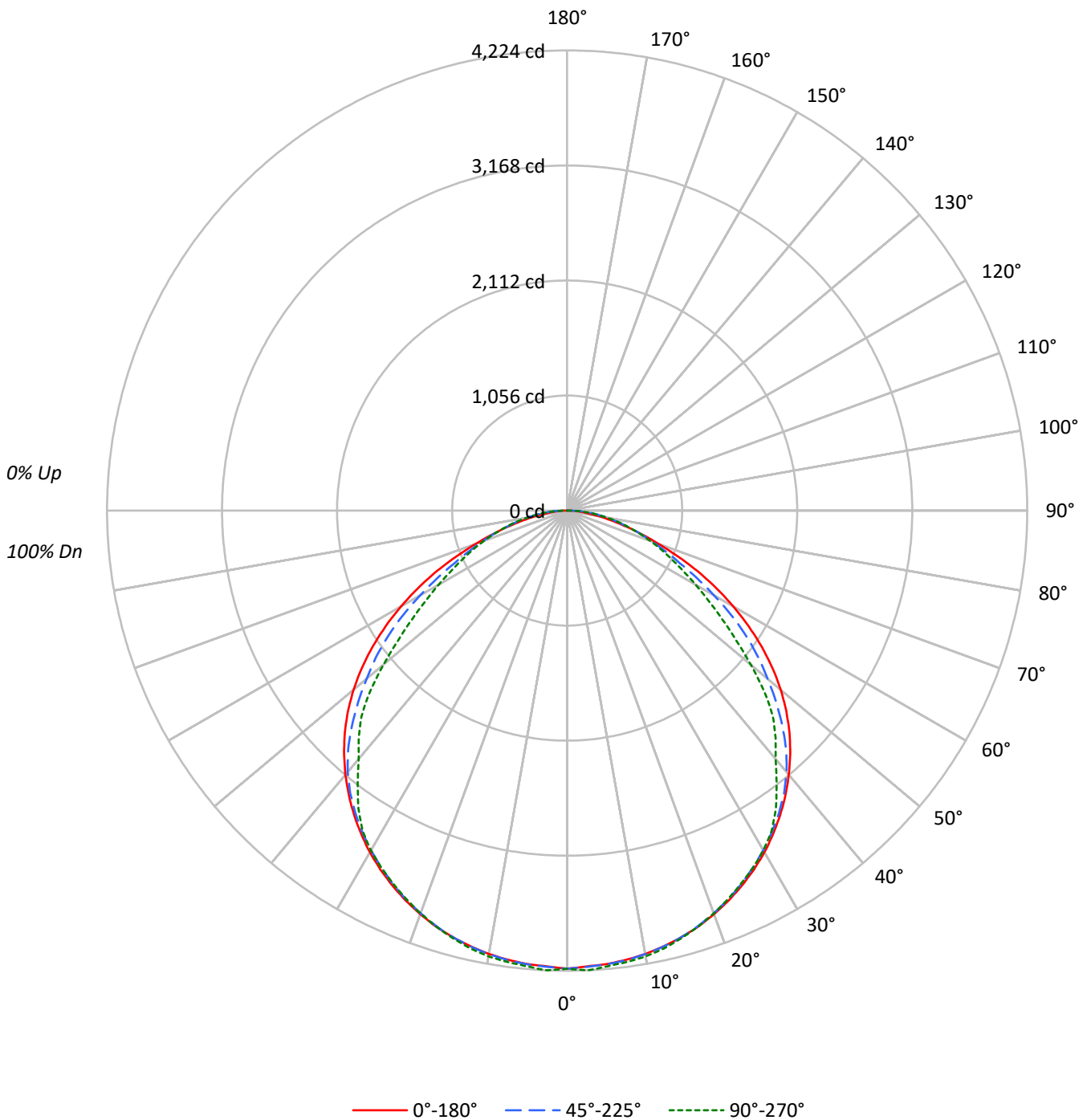
Lumens per Lamp: N/A
Luminaire Lumens: 11298.0 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65		74	68	64		71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5658	5658	5658
5°	5643	5647	5672
10°	5646	5649	5678
15°	5647	5646	5659
20°	5645	5632	5634
25°	5637	5616	5609
30°	5627	5594	5597
35°	5601	5566	5488
40°	5561	5504	5227
45°	5491	5315	5082
50°	5359	5032	4603
55°	5115	4706	4070
60°	4747	4199	3670
65°	4219	3635	3375
70°	3501	3249	3181
75°	2832	2974	3010
80°	2249	2844	2832
85°	1761	3055	2915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.8	3.5
10°-20°	1147.1	10.2
20°-30°	1749.1	15.5
30°-40°	2116.2	18.7
40°-50°	2143.5	19.0
50°-60°	1771.7	15.7
60°-70°	1170.2	10.4
70°-80°	610.2	5.4
80°-90°	191.3	1.7
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°	3295.0	29.2
0°-40°	5411.2	47.9
0°-60°	9326.4	82.5
0°-90°	11298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11298.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4205	4205	4205	4205	4205	
5°	4178	4203	4181	4199	4200	397
15°	4054	4074	4053	4066	4063	1145
25°	3797	3812	3783	3792	3778	1751
35°	3410	3415	3389	3384	3341	2133
45°	2886	2878	2793	2706	2671	2222
55°	2180	2148	2006	1811	1735	1943
65°	1325	1287	1142	1068	1060	1309
75°	545	554	572	580	579	593
85°	114	147	198	196	189	138
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4205.2	4205.2	4205.2	4205.2	4205.2
2.5°	4187.5	4212.2	4191.5	4209.7	4224.4
5°	4177.9	4203.2	4180.9	4199.1	4199.6
7.5°	4159.2	4184.5	4161.8	4179.9	4179.4
10°	4132.5	4156.2	4134.5	4156.2	4156.2
12.5°	4096.1	4119.4	4098.2	4118.3	4115.3
15°	4053.7	4074.4	4053.2	4065.8	4062.8
17.5°	4003.8	4022.4	3998.7	4009.3	4003.3
20°	3942.7	3959.8	3933.6	3947.2	3934.6
22.5°	3874.0	3890.2	3863.4	3873.5	3859.4
25°	3796.8	3811.9	3782.6	3792.2	3778.1
27.5°	3713.5	3727.1	3694.3	3705.9	3694.8
30°	3622.1	3628.7	3600.4	3615.5	3602.4
32.5°	3520.1	3524.2	3499.4	3513.1	3490.9
35°	3410.1	3414.6	3388.9	3384.3	3340.9
37.5°	3292.5	3294.5	3270.2	3229.4	3157.7
40°	3166.3	3165.2	3133.9	3039.5	2975.9
42.5°	3031.5	3031.0	2975.9	2868.4	2832.1
45°	2885.6	2878.0	2793.2	2706.4	2671.0
47.5°	2729.1	2721.0	2602.4	2533.2	2452.9
50°	2560.0	2545.8	2404.0	2309.6	2199.0
52.5°	2377.7	2356.0	2211.6	2059.2	1954.7
55°	2180.3	2148.0	2006.2	1811.3	1735.1
57.5°	1974.9	1926.9	1789.1	1599.3	1537.2
60°	1763.9	1710.3	1560.4	1404.4	1364.0
62.5°	1546.8	1493.8	1340.8	1223.2	1201.0
65°	1325.2	1286.8	1141.9	1067.7	1060.1
67.5°	1098.0	1084.4	973.8	935.9	932.9
70°	890.0	887.5	825.9	806.7	808.7
72.5°	711.3	708.3	699.2	689.6	690.1
75°	544.7	554.3	572.0	579.5	579.0
77.5°	406.4	426.1	463.4	478.6	476.0
80°	290.3	319.6	367.0	381.1	365.5
82.5°	193.3	224.1	280.2	282.2	269.6
85°	114.1	146.9	197.9	196.4	188.8
87.5°	56.5	88.3	118.6	113.6	108.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)