

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-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 (P23760)
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-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

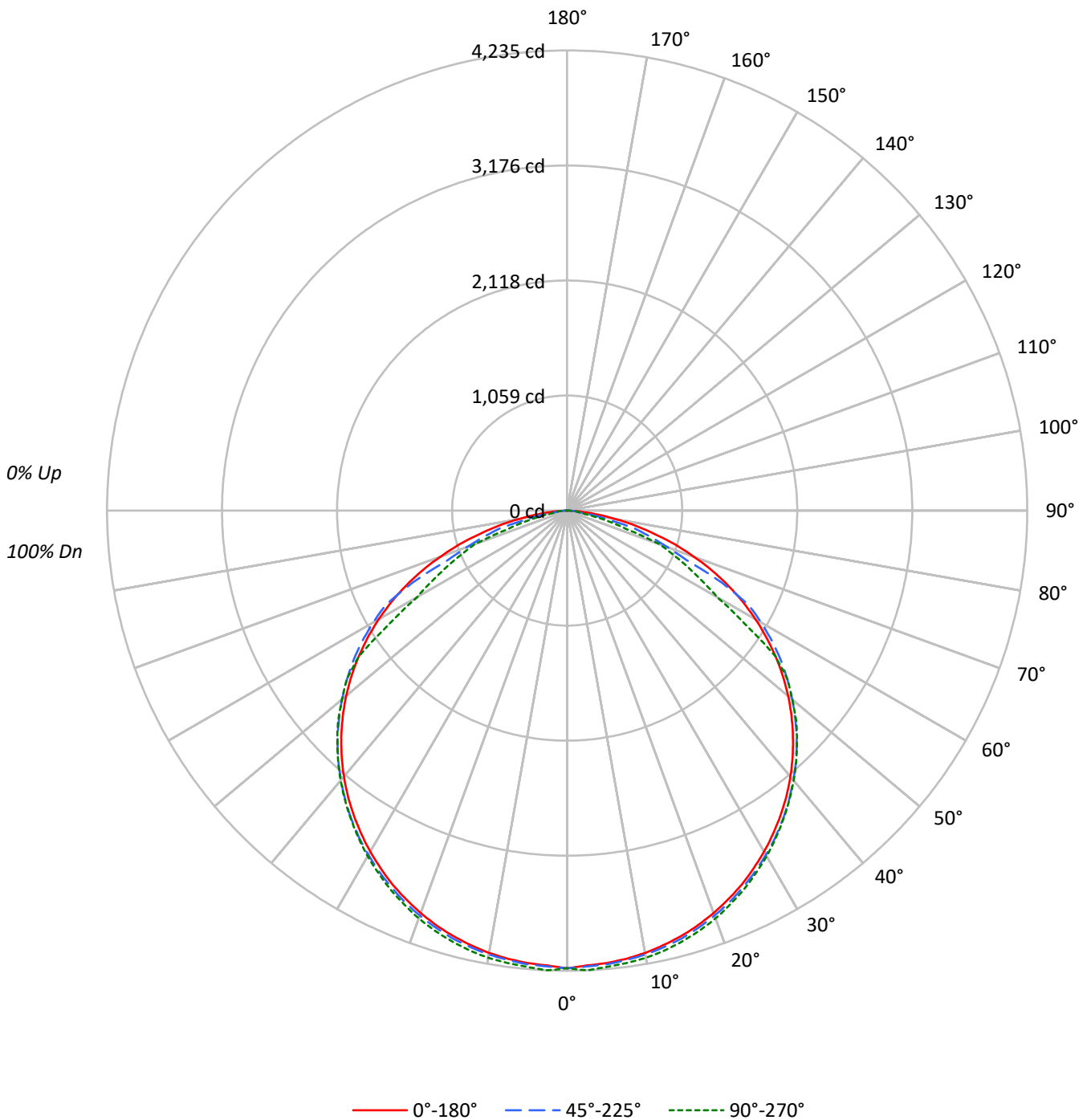
Lumens per Lamp: N/A
Luminaire Lumens: 12161.0 lumens
Efficiency: N/A
Efficacy: 167.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5668	5668	5668
5°	5644	5660	5692
10°	5648	5668	5710
15°	5646	5676	5716
20°	5643	5679	5719
25°	5641	5682	5713
30°	5631	5686	5707
35°	5624	5689	5696
40°	5614	5689	5697
45°	5593	5686	5693
50°	5560	5662	5661
55°	5495	5632	5492
60°	5393	5549	4297
65°	5213	4994	3872
70°	4884	3842	3568
75°	4324	3350	2224
80°	3561	1972	994
85°	2347	1209	1301



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.7	3.3
10°-20°	1153.3	9.5
20°-30°	1768.1	14.5
30°-40°	2168.4	17.8
40°-50°	2302.5	18.9
50°-60°	2103.1	17.3
60°-70°	1464.6	12.0
70°-80°	683.1	5.6
80°-90°	118.2	1.0
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°	3321.2	27.3
0°-40°	5489.6	45.1
0°-60°	9895.2	81.4
0°-90°	12161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12161.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4212	4212	4212	4212	4212	
5°	4179	4208	4191	4211	4214	398
15°	4053	4082	4075	4100	4103	1145
25°	3800	3833	3827	3855	3848	1751
35°	3424	3464	3464	3487	3468	2143
45°	2939	2984	2988	3008	2992	2267
55°	2342	2389	2401	2405	2341	2092
65°	1637	1688	1569	1247	1216	1616
75°	832	884	644	446	428	889
85°	152	100	78	84	84	196
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4212.5	4212.5	4212.5	4212.5	4212.5
2.5°	4190.2	4217.0	4199.3	4218.5	4234.7
5°	4179.1	4208.4	4190.7	4210.9	4214.5
7.5°	4160.9	4188.7	4172.6	4194.8	4200.3
10°	4133.7	4160.9	4148.3	4174.6	4179.6
12.5°	4096.8	4124.6	4115.0	4143.8	4147.3
15°	4053.4	4081.7	4075.1	4099.8	4103.4
17.5°	4002.4	4031.7	4024.1	4050.3	4052.9
20°	3941.3	3973.1	3966.5	3997.3	3994.3
22.5°	3872.6	3906.4	3901.4	3932.2	3923.1
25°	3799.8	3833.2	3827.1	3855.4	3848.3
27.5°	3714.5	3751.4	3745.8	3773.1	3762.0
30°	3624.6	3662.0	3660.0	3684.7	3673.6
32.5°	3527.6	3567.5	3565.5	3589.8	3572.6
35°	3424.1	3463.5	3463.5	3486.7	3468.0
37.5°	3314.5	3354.4	3354.9	3377.1	3359.5
40°	3196.3	3236.2	3238.8	3260.0	3243.8
42.5°	3072.1	3115.5	3117.6	3136.7	3121.6
45°	2939.3	2983.7	2988.3	3007.5	2991.8
47.5°	2800.4	2845.3	2849.4	2870.1	2859.0
50°	2656.0	2699.4	2704.9	2722.1	2704.4
52.5°	2503.4	2547.9	2555.5	2566.1	2558.0
55°	2342.3	2389.3	2400.9	2405.0	2341.3
57.5°	2175.7	2223.6	2234.8	2141.8	1937.3
60°	2004.0	2051.4	2062.0	1742.4	1596.9
62.5°	1825.2	1871.6	1883.3	1443.9	1397.4
65°	1637.3	1687.8	1568.6	1247.4	1216.1
67.5°	1444.4	1496.4	1186.3	1069.1	1050.5
70°	1241.4	1293.9	976.7	911.6	907.0
72.5°	1046.4	1085.3	801.5	690.9	581.8
75°	831.8	884.3	644.4	446.4	427.8
77.5°	644.9	557.6	388.9	327.3	258.1
80°	459.6	372.7	254.5	135.9	128.3
82.5°	291.4	243.4	100.0	102.5	107.1
85°	152.0	100.0	78.3	83.8	84.3
87.5°	49.0	42.9	47.0	46.5	46.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)