

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-WG-UNV-L840-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 (P33336)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-12HE-W-WG-UNV-L840-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

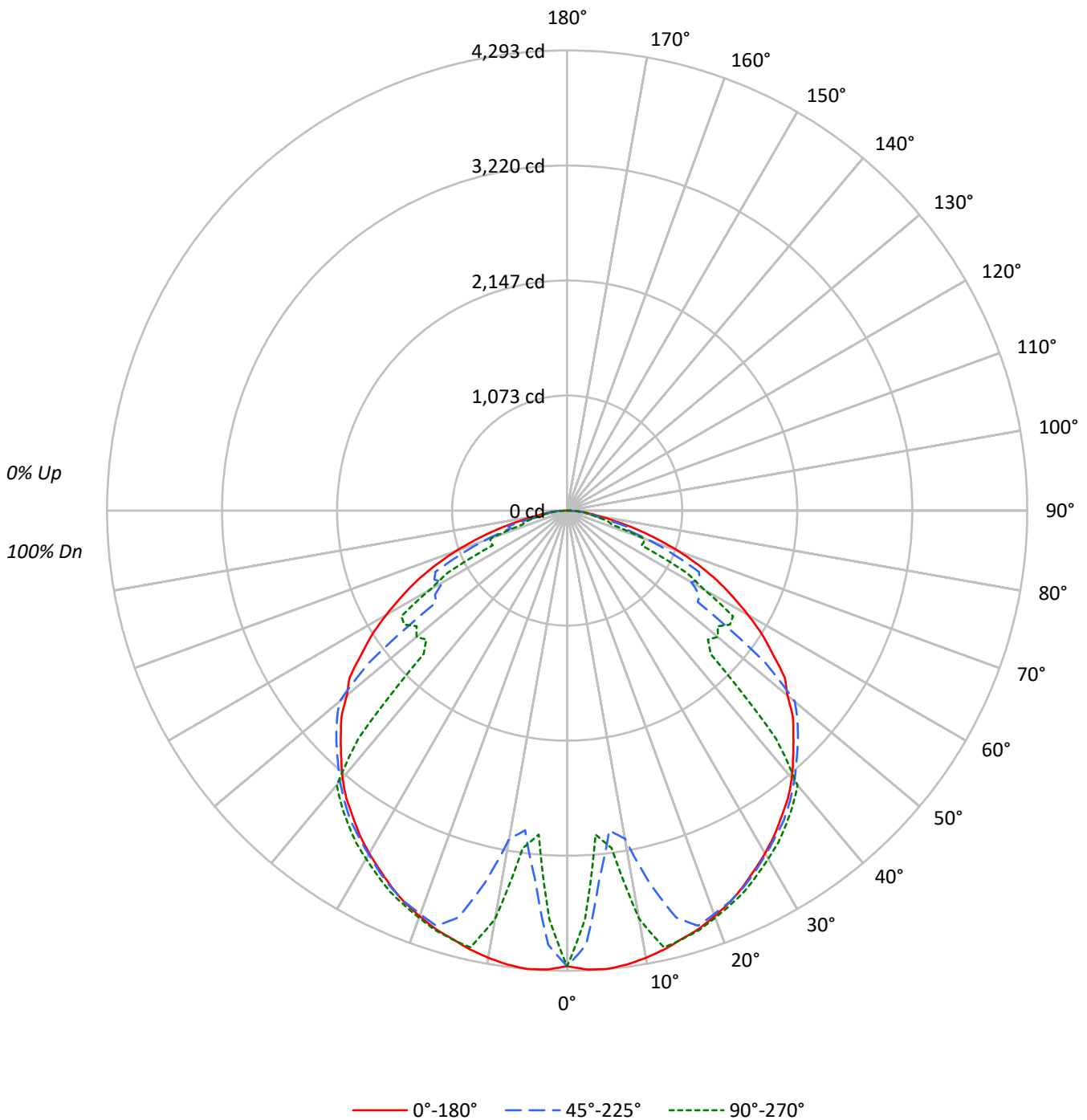
Lumens per Lamp: N/A  
Luminaire Lumens: 11260.0 lumens  
Efficiency: N/A  
Efficacy: 155.1 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5719	5719	5719
5°	5798	4658	4097
10°	5788	4248	5283
15°	5763	5475	5768
20°	5763	5736	5787
25°	5752	5765	5818
30°	5736	5755	5829
35°	5727	5790	5858
40°	5727	5790	5873
45°	5682	5794	3600
50°	5618	5805	3837
55°	5499	3491	4349
60°	5246	3598	3983
65°	4916	4320	2437
70°	4341	3273	2987
75°	3459	2975	2071
80°	2383	2150	1780
85°	2283	1985	1883



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.9	3.0
10°-20°	1064.8	9.5
20°-30°	1751.8	15.6
30°-40°	2202.6	19.6
40°-50°	2160.2	19.2
50°-60°	1789.9	15.9
60°-70°	1262.4	11.2
70°-80°	550.8	4.9
80°-90°	137.6	1.2
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°	3156.4	28.0
0°-40°	5359.1	47.6
0°-60°	9309.2	82.7
0°-90°	11260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11260.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4250	4250	4250	4250	4250	
5°	4293	3996	3449	3127	3033	408
15°	4137	2873	3931	4153	4140	1170
25°	3875	3545	3883	3909	3919	1786
35°	3486	3484	3525	3548	3566	2184
45°	2986	2996	3045	2697	1892	2305
55°	2344	2421	1488	1692	1854	2098
65°	1544	1635	1357	1044	765	1518
75°	665	652	572	374	398	713
85°	148	132	129	123	122	153
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4250.3	4250.3	4250.3	4250.3	4250.3
2.5°	4285.4	4196.4	4055.1	3877.2	3814.2
5°	4293.0	3995.7	3448.8	3127.1	3033.1
7.5°	4271.1	3631.3	3006.7	3074.3	3173.9
10°	4236.6	3311.1	3109.3	3658.2	3867.1
12.5°	4192.3	3026.5	3562.1	4132.4	4174.1
15°	4136.9	2873.0	3930.6	4153.2	4140.5
17.5°	4090.2	2963.0	4062.7	4111.5	4102.4
20°	4024.6	3142.4	4006.3	4045.5	4041.9
22.5°	3958.6	3354.8	3953.0	3980.9	3980.9
25°	3874.7	3545.4	3883.3	3909.3	3918.9
27.5°	3782.7	3655.2	3796.4	3817.8	3835.1
30°	3691.7	3670.9	3703.9	3731.4	3751.7
32.5°	3595.7	3587.6	3613.5	3642.4	3668.4
35°	3486.4	3484.4	3525.0	3548.4	3566.2
37.5°	3383.8	3376.6	3414.3	3446.8	3460.5
40°	3260.8	3260.8	3296.3	3329.4	3343.6
42.5°	3120.5	3140.3	3167.8	3201.8	2883.7
45°	2986.3	2995.5	3044.8	2696.6	1892.1
47.5°	2857.2	2868.9	2915.7	1733.6	1780.8
50°	2683.9	2736.8	2773.4	1728.5	1833.2
52.5°	2557.4	2580.3	2328.2	1711.2	1770.1
55°	2344.4	2421.2	1488.1	1691.9	1854.0
57.5°	2162.5	2218.4	1463.2	1733.6	1834.2
60°	1949.6	2034.9	1337.1	1672.6	1480.0
62.5°	1745.2	1826.6	1396.1	1316.3	1253.3
65°	1544.0	1635.0	1357.0	1043.9	765.4
67.5°	1323.4	1238.5	1082.5	735.4	774.0
70°	1103.4	865.0	832.0	822.3	759.3
72.5°	877.2	631.2	552.4	617.0	441.6
75°	665.3	652.1	572.3	374.1	398.4
77.5°	461.5	470.6	306.5	364.9	302.9
80°	307.5	266.3	277.5	232.8	229.7
82.5°	212.9	217.5	182.5	176.9	179.4
85°	147.9	131.6	128.6	123.0	122.0
87.5°	49.3	57.4	53.4	48.3	51.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)