

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-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 (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-L840-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

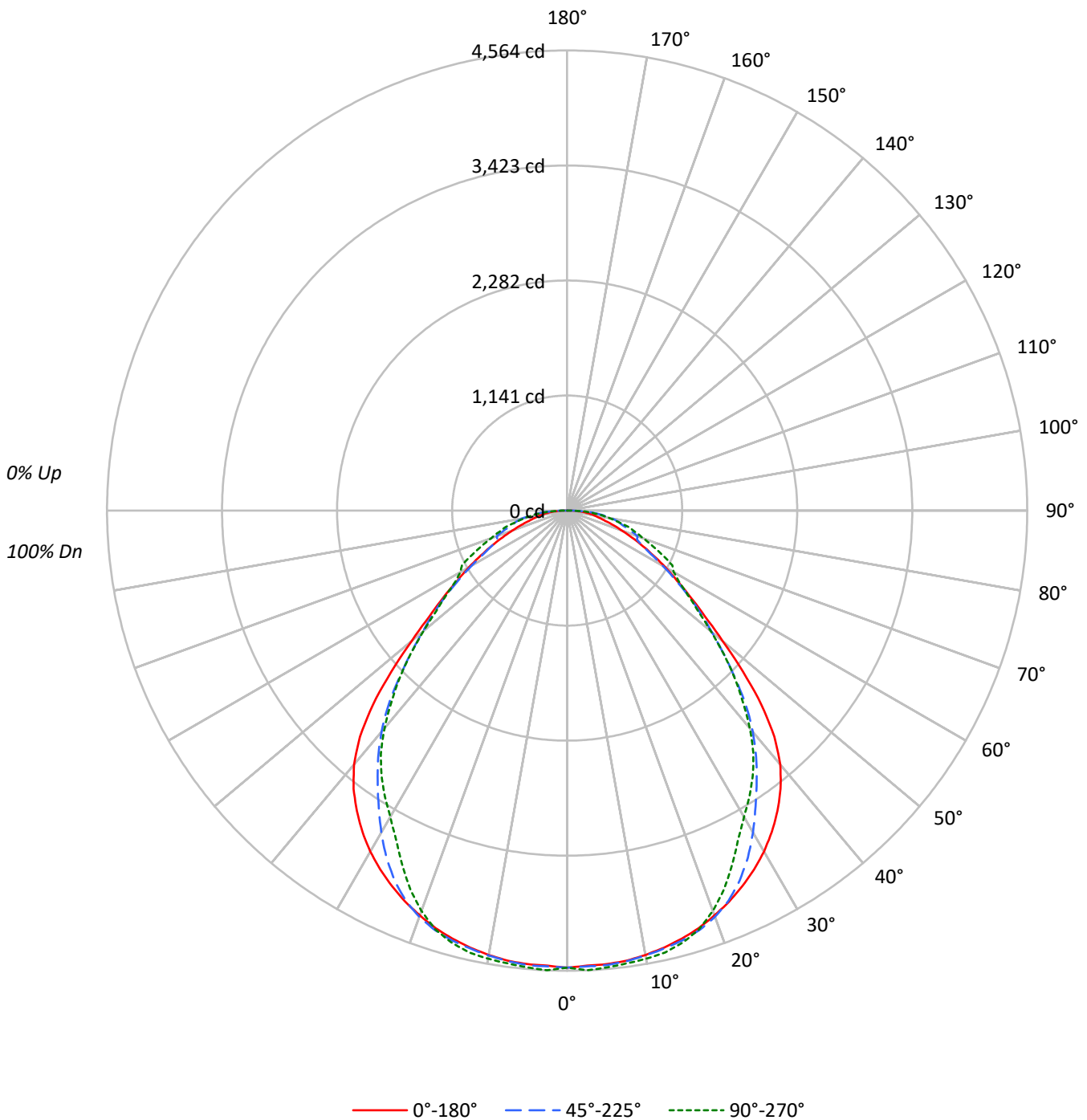
Lumens per Lamp: N/A  
Luminaire Lumens: 10493.0 lumens  
Efficiency: N/A  
Efficacy: 144.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29

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

	0°	45°	90°
0°	6100	6100	6100
5°	6099	6112	6142
10°	6114	6122	6167
15°	6124	6147	6177
20°	6118	6140	6049
25°	6102	6011	5749
30°	6066	5727	5448
35°	5975	5383	5271
40°	5775	5033	4950
45°	5191	4494	4478
50°	4210	3915	3888
55°	3496	3431	3430
60°	3027	2938	3285
65°	2623	2607	3311
70°	2262	2924	3156
75°	2028	2997	3290
80°	2108	3528	3302
85°	2393	4065	3771



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.6	4.1
10°-20°	1246.6	11.9
20°-30°	1851.4	17.6
30°-40°	2101.9	20.0
40°-50°	1879.0	17.9
50°-60°	1299.1	12.4
60°-70°	857.3	8.2
70°-80°	578.3	5.5
80°-90°	247.7	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°	3529.6	33.6
0°-40°	5631.5	53.7
0°-60°	8809.7	84.0
0°-90°	10493.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10493.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4533	4533	4533	4533	4533	
5°	4516	4544	4526	4544	4548	430
15°	4396	4417	4413	4437	4434	1241
25°	4110	4149	4049	3928	3873	1894
35°	3638	3561	3277	3229	3209	2268
45°	2728	2497	2362	2380	2353	2075
55°	1490	1360	1462	1442	1462	1354
65°	824	732	819	957	1040	822
75°	390	491	576	616	633	426
85°	155	216	263	265	244	162
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4533.3	4533.3	4533.3	4533.3	4533.3
2.5°	4517.9	4546.1	4525.1	4544.6	4563.6
5°	4515.8	4543.6	4525.6	4544.1	4547.7
7.5°	4503.0	4528.7	4507.6	4525.6	4529.7
10°	4475.3	4505.6	4480.9	4508.7	4513.8
12.5°	4439.4	4470.2	4448.6	4486.6	4488.6
15°	4396.2	4417.3	4412.7	4437.3	4434.2
17.5°	4341.8	4366.0	4362.4	4368.5	4354.1
20°	4272.5	4299.7	4288.4	4260.2	4224.8
22.5°	4198.1	4230.9	4186.3	4114.9	4065.1
25°	4110.3	4149.3	4048.7	3928.1	3872.6
27.5°	4013.3	4048.2	3880.8	3733.0	3675.5
30°	3904.5	3919.3	3686.3	3545.6	3506.6
32.5°	3778.7	3757.1	3478.4	3385.5	3362.9
35°	3637.5	3561.0	3277.2	3229.4	3208.9
37.5°	3478.4	3338.2	3078.5	3056.4	3034.9
40°	3287.9	3081.1	2865.5	2851.1	2818.2
42.5°	3042.0	2801.3	2628.8	2611.9	2582.6
45°	2727.9	2496.9	2361.9	2379.8	2353.1
47.5°	2366.5	2191.4	2105.7	2155.0	2105.7
50°	2011.3	1893.7	1870.1	1914.8	1857.3
52.5°	1720.2	1614.5	1663.2	1670.9	1636.5
55°	1490.2	1360.3	1462.5	1442.0	1462.0
57.5°	1290.0	1144.7	1270.5	1246.9	1315.7
60°	1124.7	961.5	1091.9	1086.7	1220.7
62.5°	962.5	832.1	936.8	1012.3	1177.1
65°	823.9	731.5	818.8	957.4	1040.0
67.5°	691.0	656.0	749.0	826.0	916.3
70°	574.9	592.9	743.3	728.9	802.3
72.5°	477.4	538.5	656.0	658.6	710.5
75°	390.1	490.8	576.5	616.0	632.9
77.5°	324.4	445.1	520.5	534.4	518.0
80°	272.1	392.2	455.3	449.2	426.1
82.5°	219.7	297.2	358.8	364.5	337.3
85°	155.0	215.6	263.3	264.9	244.3
87.5°	83.2	133.0	159.6	164.3	151.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)