

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-LD5-24HE-W-CLWG-UNV-L740-ED2-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 (P33385)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-24HE-W-CLWG-UNV-L740-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22140.0 lumens  
Efficiency: N/A  
Efficacy: 151.3 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

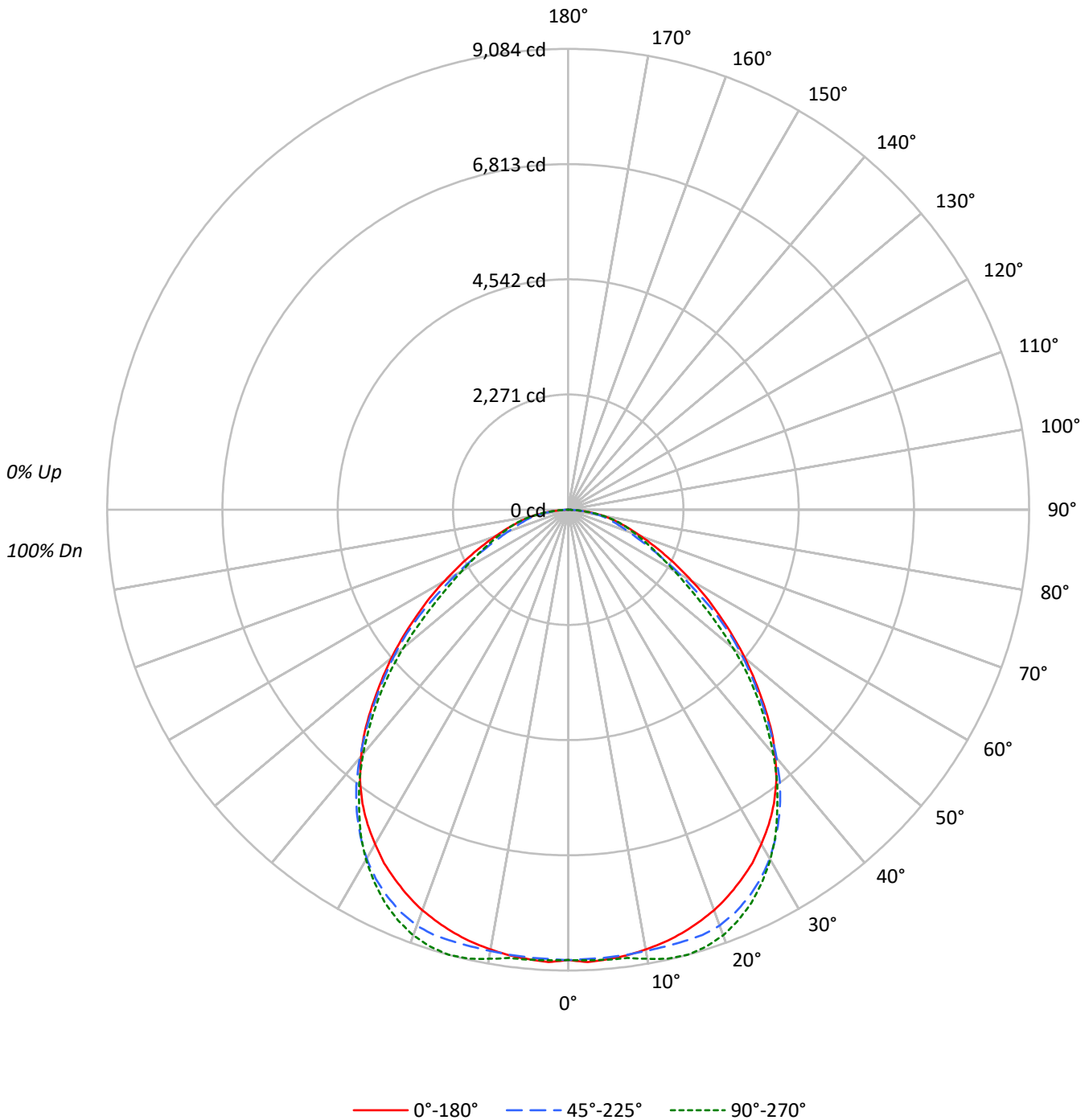
Input Watts (W): 146.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	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	65	57	52	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30					28				

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

	0°	45°	90°
0°	11945	11945	11945
5°	12015	11965	12024
10°	12026	12066	12282
15°	12041	12267	12653
20°	12032	12492	12783
25°	11959	12503	12687
30°	11822	12337	12377
35°	11610	11938	11795
40°	11153	11221	11044
45°	10391	10283	10073
50°	9514	9361	8881
55°	8546	8229	7509
60°	7579	6809	6482
65°	6677	5657	5883
70°	5972	4909	5603
75°	5595	4773	5666
80°	5447	4826	5394
85°	4347	3818	3960



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	845.7	3.8
10°-20°	2491.0	11.3
20°-30°	3832.1	17.3
30°-40°	4472.3	20.2
40°-50°	4155.9	18.8
50°-60°	3080.5	13.9
60°-70°	1883.2	8.5
70°-80°	1072.6	4.8
80°-90°	306.8	1.4
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°	7168.7	32.4
0°-40°	11641.0	52.6
0°-60°	18877.4	85.3
0°-90°	22140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22140.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8878	8878	8878	8878	8878	
5°	8896	8855	8859	8852	8903	846
15°	8644	8639	8806	8980	9084	2440
25°	8056	8117	8422	8493	8546	3711
35°	7069	7124	7268	7208	7181	4404
45°	5461	5493	5404	5319	5294	4208
55°	3643	3552	3508	3258	3201	3269
65°	2097	1905	1777	1825	1848	2099
75°	1076	1010	918	1046	1090	1152
85°	282	275	247	256	256	325
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8877.5	8877.5	8877.5	8877.5	8877.5
2.5°	8925.6	8875.2	8866.1	8845.4	8891.2
5°	8895.8	8854.6	8859.2	8852.3	8902.7
7.5°	8861.5	8831.7	8850.0	8847.7	8914.1
10°	8801.9	8785.9	8831.7	8882.1	8989.7
12.5°	8735.5	8719.5	8820.3	8948.5	9065.3
15°	8643.9	8639.4	8806.5	8980.5	9083.6
17.5°	8529.5	8536.3	8790.5	8939.3	9030.9
20°	8403.5	8415.0	8724.1	8845.4	8927.9
22.5°	8240.9	8279.9	8595.9	8696.6	8760.7
25°	8055.5	8117.3	8421.8	8492.8	8545.5
27.5°	7856.3	7918.1	8206.6	8243.2	8273.0
30°	7609.0	7696.0	7941.0	7945.6	7966.2
32.5°	7357.1	7434.9	7622.7	7602.1	7606.7
35°	7068.6	7123.5	7267.8	7208.2	7180.8
37.5°	6736.6	6766.3	6857.9	6768.6	6764.0
40°	6349.6	6388.5	6388.5	6264.9	6287.8
42.5°	5937.4	5951.2	5893.9	5777.1	5795.4
45°	5461.1	5493.2	5403.9	5319.2	5294.0
47.5°	4989.4	5021.5	4927.6	4829.2	4785.7
50°	4545.2	4529.2	4472.0	4304.8	4243.0
52.5°	4085.0	4034.6	4011.7	3766.7	3695.7
55°	3643.1	3551.5	3508.0	3258.4	3201.1
57.5°	3233.2	3068.3	2985.9	2791.2	2768.4
60°	2816.4	2631.0	2530.2	2404.3	2408.9
62.5°	2438.6	2244.0	2122.6	2086.0	2102.0
65°	2097.4	1905.1	1776.9	1825.0	1847.9
67.5°	1788.3	1630.3	1486.1	1598.3	1621.2
70°	1518.1	1392.2	1247.9	1412.8	1424.2
72.5°	1293.7	1190.7	1069.3	1225.0	1250.2
75°	1076.2	1009.8	918.2	1046.4	1089.9
77.5°	886.1	833.5	780.8	858.7	906.8
80°	703.0	650.3	622.8	664.0	696.1
82.5°	496.9	462.5	435.1	464.8	480.9
85°	281.6	274.8	247.3	256.5	256.5
87.5°	64.1	73.3	82.4	75.6	64.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)