

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-LD5-24SE-W-AI-UNV-L735-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 (P23765)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-24SE-W-AI-UNV-L735-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

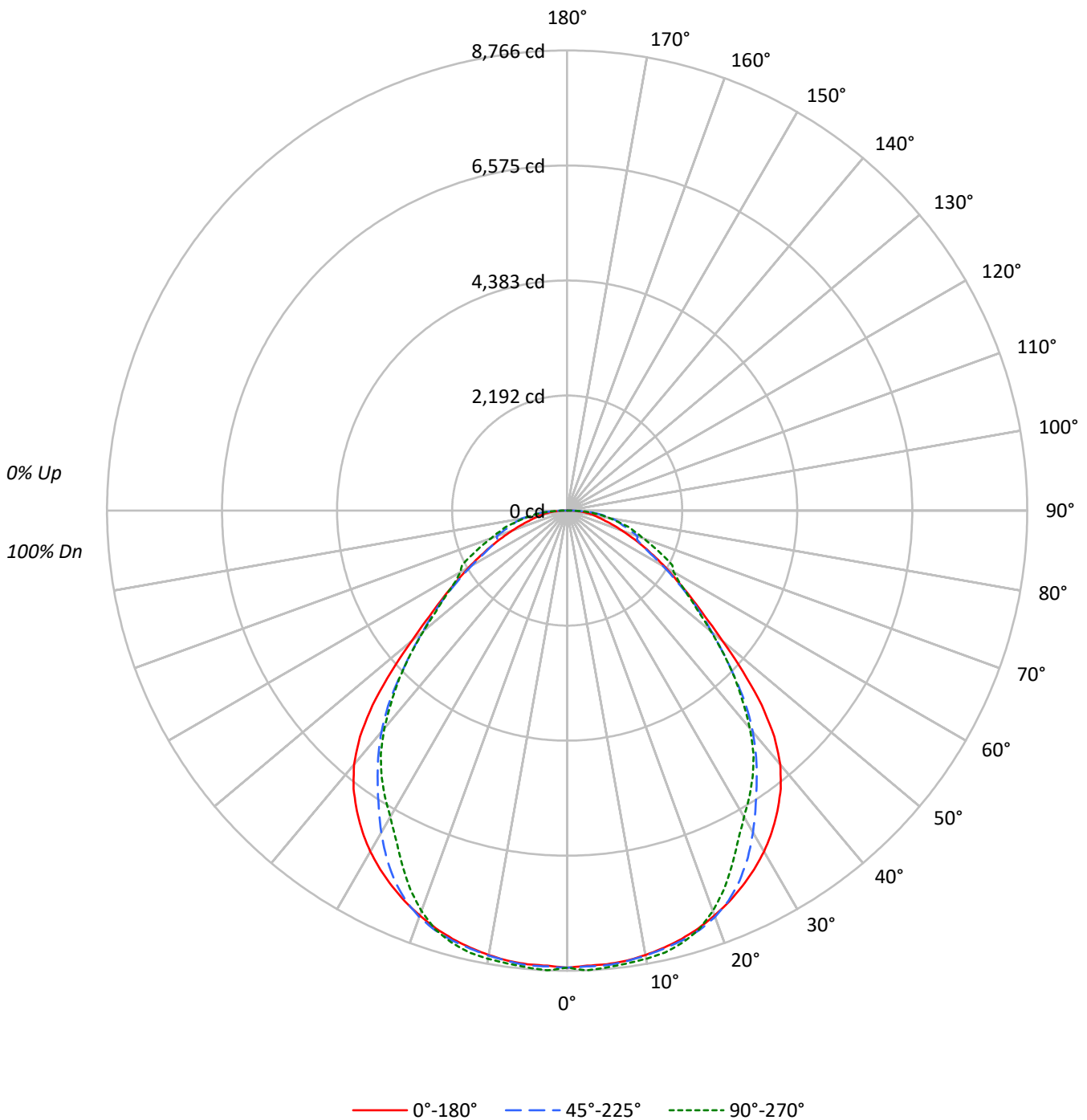
Lumens per Lamp: N/A  
Luminaire Lumens: 20156.0 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 154  
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	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

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

	0°	45°	90°
0°	11717	11717	11717
5°	11716	11741	11799
10°	11745	11760	11846
15°	11763	11807	11865
20°	11751	11795	11620
25°	11722	11546	11044
30°	11652	11001	10465
35°	11477	10340	10124
40°	11093	9668	9508
45°	9971	8633	8601
50°	8087	7519	7468
55°	6715	6590	6588
60°	5814	5644	6310
65°	5039	5007	6360
70°	4345	5617	6063
75°	3896	5757	6320
80°	4049	6777	6341
85°	4597	7810	7246



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	829.1	4.1
10°-20°	2394.6	11.9
20°-30°	3556.4	17.6
30°-40°	4037.5	20.0
40°-50°	3609.4	17.9
50°-60°	2495.5	12.4
60°-70°	1646.7	8.2
70°-80°	1110.9	5.5
80°-90°	475.8	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°	6780.1	33.6
0°-40°	10817.6	53.7
0°-60°	16922.5	84.0
0°-90°	20156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20156.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8708	8708	8708	8708	8708	
5°	8674	8728	8693	8729	8736	826
15°	8445	8485	8476	8524	8518	2384
25°	7896	7970	7777	7545	7439	3638
35°	6987	6840	6295	6203	6164	4357
45°	5240	4796	4537	4571	4520	3985
55°	2863	2613	2809	2770	2808	2600
65°	1583	1405	1573	1839	1998	1579
75°	749	943	1107	1183	1216	818
85°	298	414	506	509	469	310
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8708.0	8708.0	8708.0	8708.0	8708.0
2.5°	8678.4	8732.7	8692.2	8729.7	8766.2
5°	8674.5	8727.7	8693.2	8728.7	8735.6
7.5°	8649.8	8699.1	8658.7	8693.2	8701.1
10°	8596.6	8654.8	8607.4	8660.7	8670.5
12.5°	8527.6	8586.7	8545.3	8618.3	8622.2
15°	8444.7	8485.2	8476.3	8523.6	8517.7
17.5°	8340.2	8386.6	8379.7	8391.5	8363.9
20°	8207.1	8259.4	8237.7	8183.4	8115.4
22.5°	8064.1	8127.2	8041.4	7904.4	7808.7
25°	7895.5	7970.4	7777.2	7545.4	7438.9
27.5°	7709.1	7776.2	7454.7	7170.7	7060.3
30°	7500.1	7528.7	7081.0	6810.8	6735.9
32.5°	7258.5	7217.1	6681.6	6503.2	6459.8
35°	6987.3	6840.4	6295.1	6203.4	6163.9
37.5°	6681.6	6412.4	5913.5	5871.1	5829.7
40°	6315.8	5918.4	5504.3	5476.7	5413.5
42.5°	5843.5	5381.0	5049.7	5017.1	4960.9
45°	5240.0	4796.3	4536.9	4571.4	4520.2
47.5°	4545.8	4209.5	4044.9	4139.5	4044.9
50°	3863.4	3637.6	3592.3	3678.1	3567.6
52.5°	3304.3	3101.2	3194.9	3209.7	3143.6
55°	2862.6	2613.1	2809.3	2769.9	2808.3
57.5°	2478.0	2198.9	2440.5	2395.2	2527.3
60°	2160.5	1846.9	2097.4	2087.5	2344.9
62.5°	1848.9	1598.4	1799.6	1944.5	2261.1
65°	1582.6	1405.2	1572.8	1839.0	1997.8
67.5°	1327.3	1260.2	1438.7	1586.6	1760.1
70°	1104.4	1138.9	1427.8	1400.2	1541.2
72.5°	917.0	1034.4	1260.2	1265.1	1364.7
75°	749.4	942.7	1107.4	1183.3	1215.8
77.5°	623.2	854.9	999.9	1026.5	994.9
80°	522.6	753.4	874.6	862.8	818.4
82.5°	422.0	570.9	689.3	700.1	647.9
85°	297.8	414.2	505.9	508.8	469.4
87.5°	159.7	255.4	306.7	315.5	291.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)