

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-WG-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 (P33336)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-24SE-W-WG-UNV-L735-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

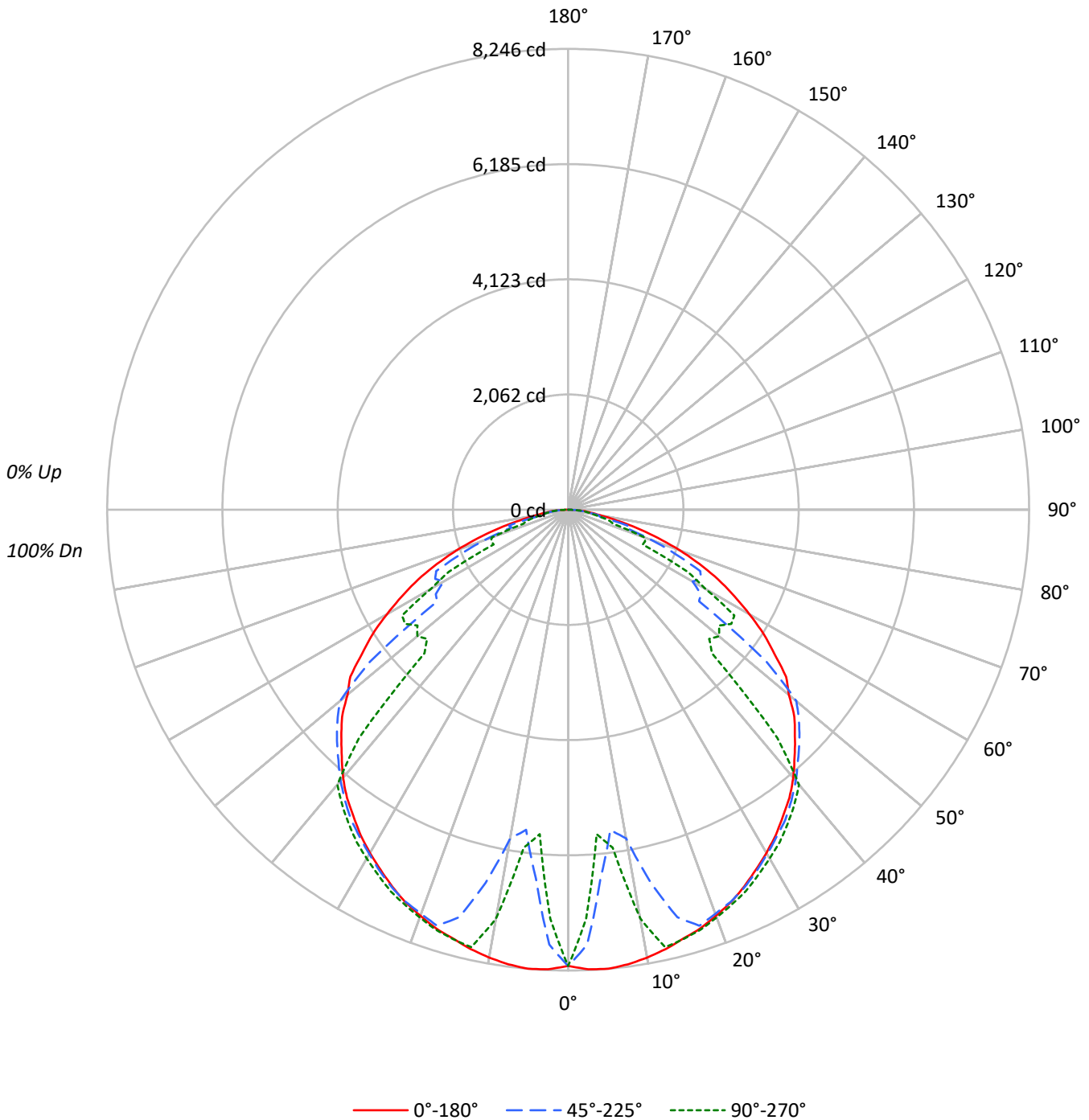
Lumens per Lamp: N/A  
Luminaire Lumens: 21629.0 lumens  
Efficiency: N/A  
Efficacy: 140.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	10985	10985	10985
5°	11138	8948	7869
10°	11118	8160	10149
15°	11069	10517	11079
20°	11069	11019	11117
25°	11049	11074	11175
30°	11017	11054	11196
35°	11000	11122	11252
40°	11001	11121	11281
45°	10915	11129	6916
50°	10792	11151	7371
55°	10564	6705	8354
60°	10077	6912	7650
65°	9442	8298	4681
70°	8338	6287	5738
75°	6643	5714	3979
80°	4576	4130	3419
85°	4386	3813	3617



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	652.9	3.0
10°-20°	2045.3	9.5
20°-30°	3364.9	15.6
30°-40°	4231.0	19.6
40°-50°	4149.5	19.2
50°-60°	3438.1	15.9
60°-70°	2425.0	11.2
70°-80°	1058.0	4.9
80°-90°	264.3	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°	6063.1	28.0
0°-40°	10294.1	47.6
0°-60°	17881.7	82.7
0°-90°	21629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21629.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8164	8164	8164	8164	8164	
5°	8246	7675	6625	6007	5826	783
15°	7946	5519	7550	7978	7953	2247
25°	7443	6810	7459	7509	7528	3431
35°	6697	6693	6771	6816	6850	4196
45°	5736	5754	5849	5180	3634	4428
55°	4503	4651	2858	3250	3561	4029
65°	2966	3140	2606	2005	1470	2916
75°	1278	1252	1099	718	765	1370
85°	284	253	247	236	234	295
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8164.2	8164.2	8164.2	8164.2	8164.2
2.5°	8231.6	8060.8	7789.4	7447.7	7326.6
5°	8246.2	7675.2	6624.7	6006.8	5826.2
7.5°	8204.3	6975.2	5775.4	5905.2	6096.6
10°	8137.9	6360.2	5972.6	7026.9	7428.2
12.5°	8053.0	5813.5	6842.4	7937.8	8017.8
15°	7946.5	5518.7	7550.2	7977.8	7953.4
17.5°	7856.7	5691.4	7804.0	7897.7	7880.2
20°	7730.8	6036.1	7695.7	7770.8	7764.0
22.5°	7603.9	6444.1	7593.1	7646.8	7646.8
25°	7442.8	6810.2	7459.4	7509.2	7527.7
27.5°	7266.1	7021.1	7292.5	7333.5	7366.7
30°	7091.4	7051.3	7114.8	7167.5	7206.6
32.5°	6906.9	6891.2	6941.0	6996.7	7046.5
35°	6697.0	6693.1	6771.2	6816.1	6850.2
37.5°	6499.8	6486.1	6558.3	6620.8	6647.2
40°	6263.5	6263.5	6331.9	6395.3	6422.6
42.5°	5994.1	6032.1	6084.9	6150.3	5539.2
45°	5736.4	5753.9	5848.6	5179.9	3634.5
47.5°	5488.4	5510.8	5600.7	3329.9	3420.7
50°	5155.5	5257.0	5327.3	3320.2	3521.3
52.5°	4912.4	4956.3	4472.1	3287.0	3400.2
55°	4503.4	4650.8	2858.4	3249.9	3561.3
57.5°	4153.9	4261.3	2810.6	3329.9	3523.2
60°	3744.8	3908.8	2568.5	3212.8	2842.8
62.5°	3352.4	3508.6	2681.7	2528.4	2407.4
65°	2965.8	3140.5	2606.5	2005.2	1470.2
67.5°	2542.1	2379.1	2079.4	1412.6	1486.8
70°	2119.4	1661.6	1598.1	1579.5	1458.5
72.5°	1685.0	1212.5	1061.2	1185.1	848.3
75°	1277.9	1252.5	1099.2	718.5	765.4
77.5°	886.4	904.0	588.7	700.9	581.8
80°	590.6	511.5	533.0	447.1	441.3
82.5°	409.0	417.8	350.5	339.7	344.6
85°	284.1	252.8	247.0	236.2	234.3
87.5°	94.7	110.3	102.5	92.7	98.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)