

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-N-CLI-UNV-L835-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 (P23769)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-N-CLI-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

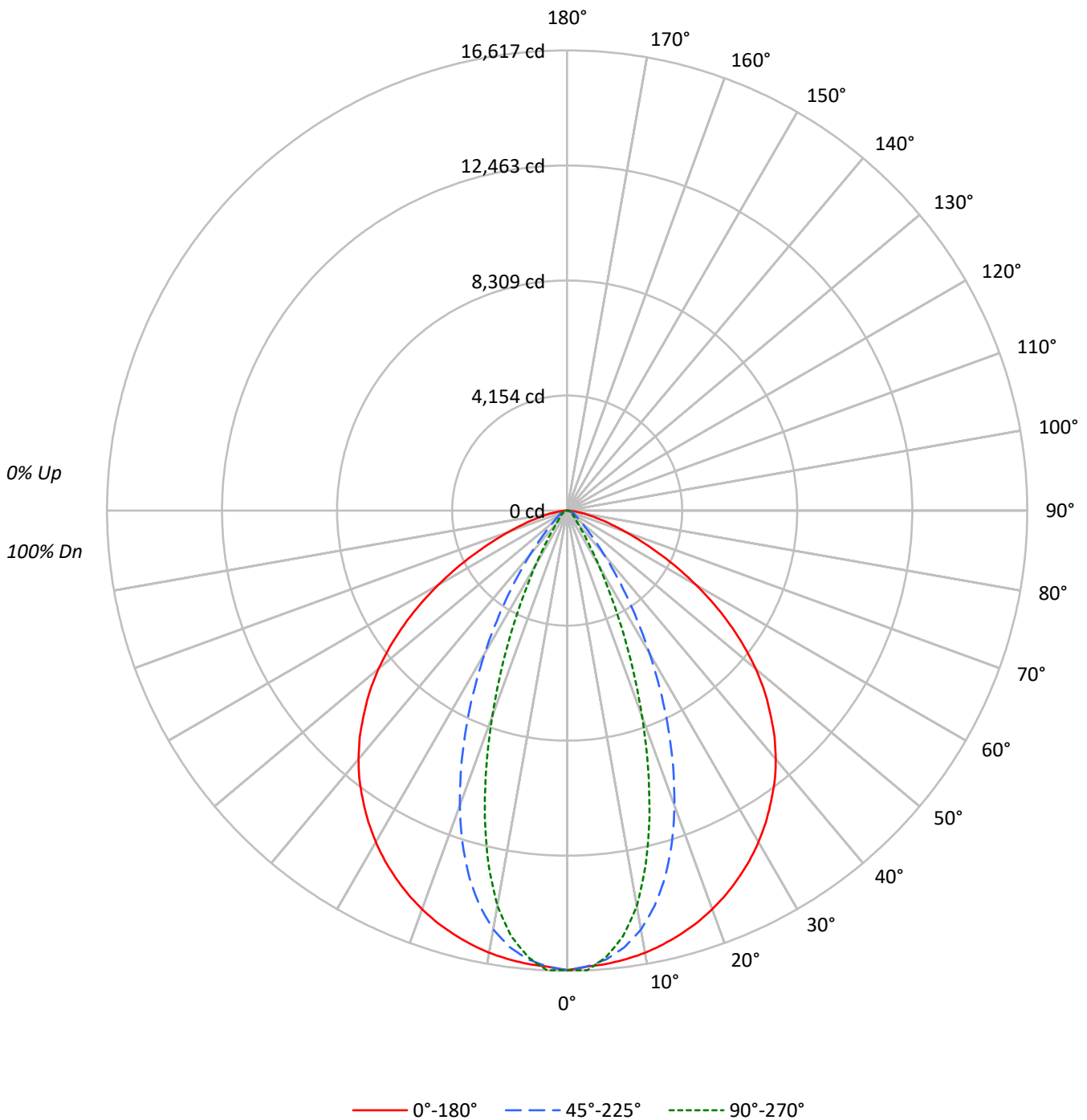
Lumens per Lamp: N/A
Luminaire Lumens: 18167.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72				72
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65				65
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60				60
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55				55
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50				50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46				46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40				40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22327	22327	22327
5°	22193	21972	21857
10°	22156	20977	19795
15°	22067	19068	15987
20°	21934	16225	11331
25°	21738	12794	6846
30°	21474	9234	3518
35°	21086	6037	1757
40°	20586	3626	1025
45°	19731	2165	767
50°	18610	1416	644
55°	16843	1074	562
60°	14474	915	513
65°	11642	835	484
70°	8771	894	482
75°	6452	849	495
80°	4720	847	542
85°	3535	1025	701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1528.2	8.4
10°-20°	3801.9	20.9
20°-30°	4211.2	23.2
30°-40°	3373.9	18.6
40°-50°	2408.5	13.3
50°-60°	1547.0	8.5
60°-70°	838.4	4.6
70°-80°	358.4	2.0
80°-90°	99.4	0.5
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°	9541.4	52.5
0°-40°	12915.3	71.1
0°-60°	16870.9	92.9
0°-90°	18167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18167.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16594	16594	16594	16594	16594	
5°	16432	16493	16268	16217	16183	###
15°	15842	15346	13689	12097	11477	4470
25°	14642	12911	8618	5615	4611	6746
35°	12838	9286	3675	1482	1070	8027
45°	10369	5360	1138	484	403	7993
55°	7180	2397	458	281	240	6399
65°	3657	984	262	181	152	3662
75°	1241	360	163	114	95	1379
85°	229	95	66	55	45	280
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16594.2	16594.2	16594.2	16594.2	16594.2
2.5°	16485.0	16588.1	16477.1	16546.2	16617.0
5°	16431.7	16492.9	16268.2	16216.7	16182.6
7.5°	16339.0	16321.5	15899.4	15625.8	15493.8
10°	16216.7	16075.1	15354.0	14752.7	14488.7
12.5°	16041.9	15749.9	14615.4	13559.6	13112.1
15°	15841.7	15346.1	13689.0	12097.4	11476.8
17.5°	15602.2	14874.2	12581.6	10529.4	9710.4
20°	15319.0	14304.3	11331.7	8863.5	7913.4
22.5°	15002.6	13647.0	9993.6	7202.8	6183.7
25°	14642.5	12911.1	8617.9	5614.7	4611.4
27.5°	14253.6	12093.9	7250.0	4195.3	3280.2
30°	13821.8	11209.4	5943.4	3025.0	2264.6
32.5°	13350.7	10268.9	4729.4	2127.4	1548.8
35°	12837.7	9285.6	3675.3	1482.3	1069.8
37.5°	12312.4	8282.3	2775.9	1048.0	767.4
40°	11720.7	7282.4	2064.4	767.4	583.8
42.5°	11085.3	6301.7	1527.8	590.8	472.8
45°	10369.4	5360.4	1138.0	484.2	402.9
47.5°	9675.5	4482.9	864.4	412.5	350.5
50°	8890.6	3691.0	676.5	360.1	307.7
52.5°	8057.6	2994.4	548.9	317.3	270.9
55°	7180.1	2396.6	458.0	281.4	239.5
57.5°	6291.2	1898.4	391.6	250.8	213.3
60°	5378.8	1518.2	340.0	224.6	190.5
62.5°	4488.1	1214.0	297.2	201.9	170.4
65°	3656.9	984.2	262.2	180.9	152.1
67.5°	2888.7	777.9	244.7	162.6	137.2
70°	2229.6	605.7	227.2	145.1	122.4
72.5°	1689.5	465.0	201.0	129.4	108.4
75°	1241.1	360.1	163.4	113.6	95.3
77.5°	888.0	277.1	132.9	98.8	82.2
80°	609.2	206.3	109.3	84.8	69.9
82.5°	395.9	146.0	88.3	69.9	57.7
85°	229.0	95.3	66.4	55.1	45.4
87.5°	98.8	52.4	45.4	41.1	35.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)