

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-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 (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-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

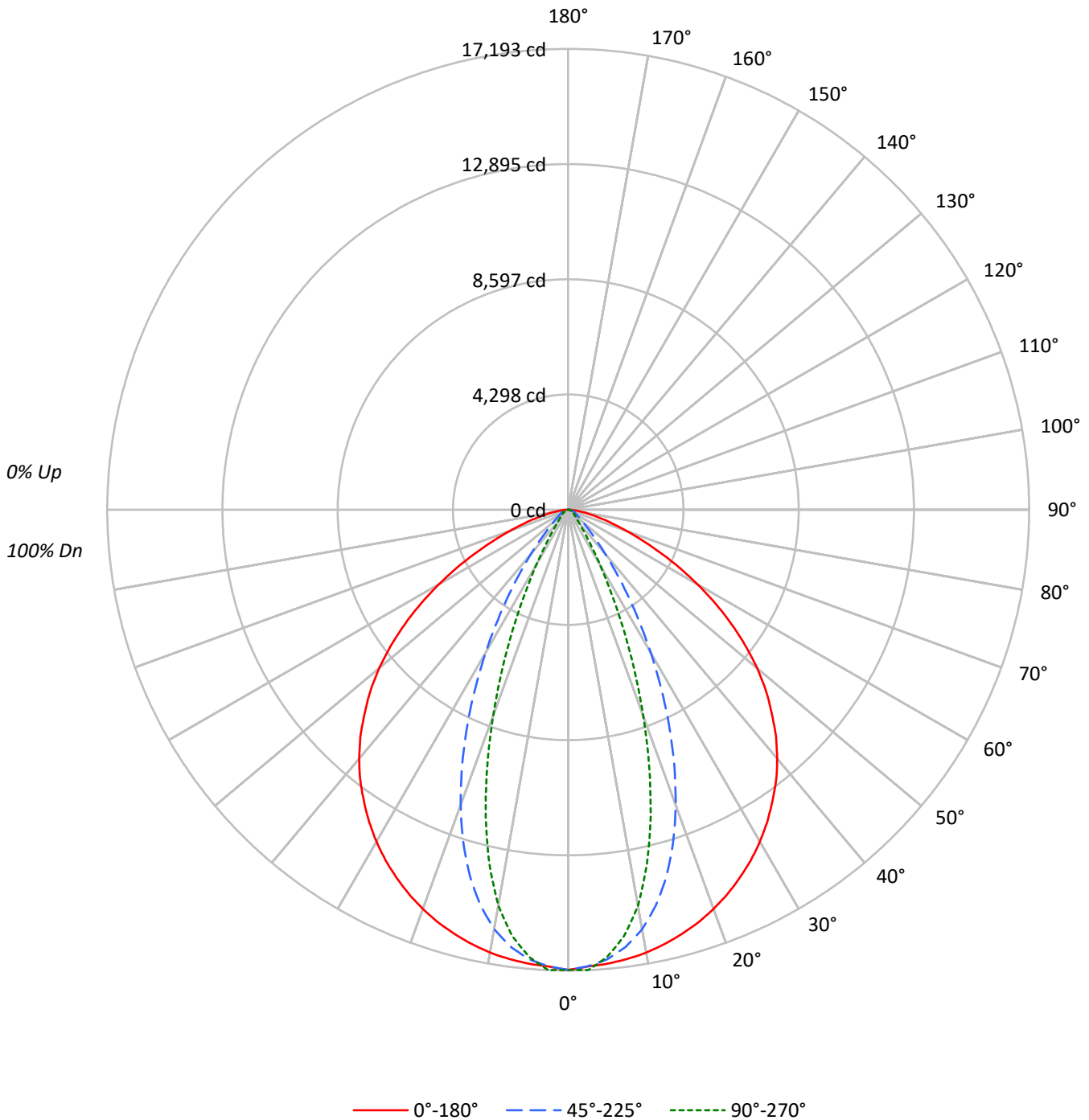
Lumens per Lamp: N/A
Luminaire Lumens: 18797.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23102	23102	23102
5°	22963	22734	22615
10°	22924	21705	20482
15°	22832	19729	16541
20°	22695	16788	11724
25°	22492	13238	7083
30°	22219	9554	3640
35°	21818	6246	1818
40°	21300	3752	1061
45°	20415	2240	793
50°	19255	1465	666
55°	17427	1112	581
60°	14976	947	530
65°	12046	864	501
70°	9076	925	498
75°	6676	879	513
80°	4884	876	560
85°	3657	1061	726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1581.2	8.4
10°-20°	3933.8	20.9
20°-30°	4357.2	23.2
30°-40°	3490.9	18.6
40°-50°	2492.1	13.3
50°-60°	1600.7	8.5
60°-70°	867.5	4.6
70°-80°	370.8	2.0
80°-90°	102.8	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°	9872.3	52.5
0°-40°	13363.2	71.1
0°-60°	17455.9	92.9
0°-90°	18797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17170	17170	17170	17170	17170	
5°	17002	17065	16832	16779	16744	###
15°	16391	15878	14164	12517	11875	4625
25°	15150	13359	8917	5809	4771	6979
35°	13283	9608	3803	1534	1107	8305
45°	10729	5546	1177	501	417	8270
55°	7429	2480	474	291	248	6621
65°	3784	1018	271	187	157	3789
75°	1284	373	169	118	99	1427
85°	237	99	69	57	47	289
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17169.7	17169.7	17169.7	17169.7	17169.7
2.5°	17056.7	17163.4	17048.5	17120.0	17193.2
5°	17001.5	17064.8	16832.4	16779.0	16743.8
7.5°	16905.6	16887.5	16450.8	16167.7	16031.1
10°	16779.0	16632.5	15886.5	15264.3	14991.2
12.5°	16598.2	16296.1	15122.3	14029.9	13566.8
15°	16391.1	15878.3	14163.7	12516.9	11874.8
17.5°	16143.3	15390.0	13017.9	10894.5	10047.2
20°	15850.3	14800.3	11724.7	9170.9	8187.8
22.5°	15522.9	14120.3	10340.2	7452.6	6398.2
25°	15150.3	13358.8	8916.7	5809.4	4771.3
27.5°	14747.9	12513.3	7501.5	4340.8	3394.0
30°	14301.2	11598.1	6149.5	3129.9	2343.1
32.5°	13813.7	10625.0	4893.4	2201.2	1602.5
35°	13282.9	9607.7	3802.7	1533.8	1106.9
37.5°	12739.4	8569.5	2872.2	1084.3	794.0
40°	12127.1	7534.9	2136.0	794.0	604.1
42.5°	11469.7	6520.3	1580.8	611.3	489.2
45°	10729.0	5546.3	1177.4	501.0	416.9
47.5°	10011.0	4638.3	894.4	426.8	362.6
50°	9198.9	3819.0	700.0	372.6	318.3
52.5°	8337.1	3098.3	567.9	328.3	280.3
55°	7429.1	2479.7	473.9	291.2	247.8
57.5°	6509.4	1964.2	405.1	259.5	220.7
60°	5565.3	1570.8	351.8	232.4	197.1
62.5°	4643.8	1256.1	307.5	208.9	176.3
65°	3783.7	1018.3	271.3	187.2	157.4
67.5°	2988.8	804.9	253.2	168.2	142.0
70°	2307.0	626.7	235.1	150.1	126.6
72.5°	1748.1	481.1	208.0	133.8	112.1
75°	1284.2	372.6	169.1	117.6	98.6
77.5°	918.8	286.7	137.5	102.2	85.0
80°	630.3	213.4	113.0	87.7	72.3
82.5°	409.7	151.0	91.3	72.3	59.7
85°	236.9	98.6	68.7	57.0	47.0
87.5°	102.2	54.3	47.0	42.5	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)