

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-CL-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 (P23768)
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-CL-UNV-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

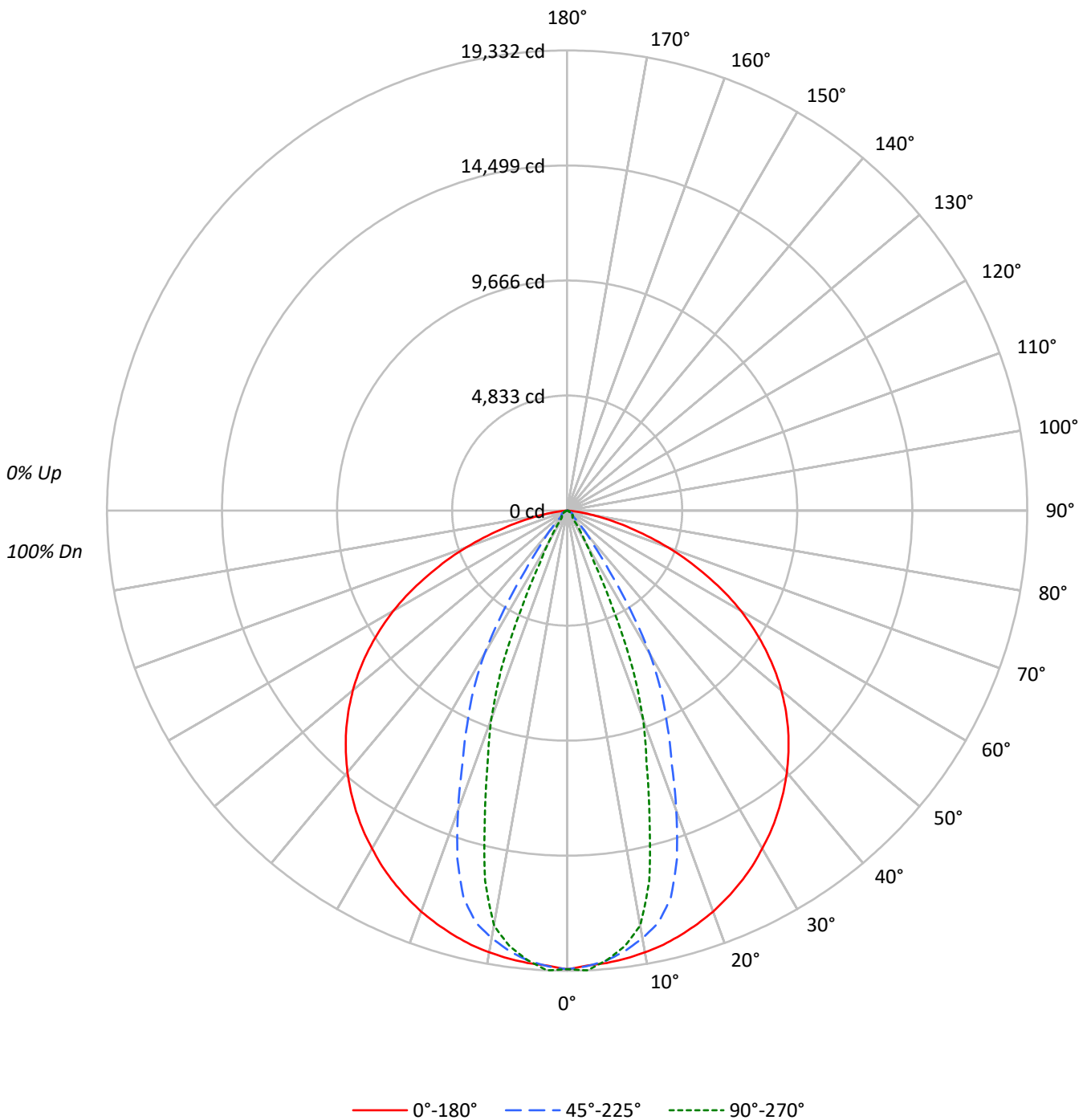
Lumens per Lamp: N/A
Luminaire Lumens: 20607.0 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25925	25925	25925
5°	25766	25631	25613
10°	25748	24923	24187
15°	25719	23436	18598
20°	25669	19179	13340
25°	25588	14777	6779
30°	25467	10784	2466
35°	25376	4952	858
40°	25220	2248	592
45°	24996	839	600
50°	24597	609	632
55°	23869	641	481
60°	22683	685	425
65°	20571	521	345
70°	17637	376	318
75°	13480	333	303
80°	8434	313	329
85°	2663	366	442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1793.8	8.7
10°-20°	4518.9	21.9
20°-30°	4921.2	23.9
30°-40°	3681.3	17.9
40°-50°	2647.0	12.8
50°-60°	1625.6	7.9
60°-70°	935.4	4.5
70°-80°	417.5	2.0
80°-90°	66.2	0.3
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°	11233.9	54.5
0°-40°	14915.3	72.4
0°-60°	19187.9	93.1
0°-90°	20607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20607.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19268	19268	19268	19268	19268	
5°	19077	19166	18977	18995	18963	###
15°	18464	18110	16825	14450	13351	5212
25°	17236	16000	9954	6386	4566	7945
35°	15449	11080	3015	886	523	9664
45°	13136	6226	441	326	316	10120
55°	10175	1294	273	264	205	9072
65°	6461	142	164	136	108	6396
75°	2593	86	64	66	58	2814
85°	172	17	24	31	29	344
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19268.1	19268.1	19268.1	19268.1	19268.1
2.5°	19134.0	19259.2	19153.7	19248.4	19332.2
5°	19076.8	19166.5	18977.2	18995.0	18963.4
7.5°	18978.2	18999.9	18657.8	18525.6	18461.6
10°	18846.1	18787.9	18241.7	17927.2	17703.3
12.5°	18679.5	18487.2	17724.0	16601.0	15931.5
15°	18463.5	18109.6	16824.8	14449.6	13351.2
17.5°	18206.2	17715.2	15336.0	12042.8	11092.3
20°	17927.2	17279.4	13394.6	10239.4	9316.6
22.5°	17597.8	16722.3	11479.8	8515.9	7249.0
25°	17236.0	15999.6	9953.5	6386.2	4566.1
27.5°	16845.5	15046.1	8540.6	3916.3	2468.9
30°	16392.0	13885.6	6941.3	2197.8	1587.4
32.5°	15949.3	12532.8	4958.5	1464.2	1014.6
35°	15449.4	11080.5	3015.1	886.4	522.6
37.5°	14919.9	9760.3	1887.2	482.1	360.9
40°	14358.9	8508.1	1279.8	342.1	337.2
42.5°	13759.4	7375.2	801.6	325.4	336.2
45°	13136.3	6225.5	440.7	326.4	315.5
47.5°	12459.9	4977.2	307.6	308.6	307.6
50°	11751.0	3570.2	290.9	304.7	301.7
52.5°	10986.8	2216.5	291.9	297.8	267.2
55°	10175.4	1293.6	273.1	264.2	205.1
57.5°	9322.5	806.5	267.2	217.9	184.4
60°	8429.2	425.9	254.4	196.2	157.8
62.5°	7477.7	210.0	204.1	167.6	129.2
65°	6461.2	142.0	163.7	136.1	108.5
67.5°	5479.1	128.2	123.2	111.4	94.7
70°	4483.3	117.3	95.6	97.6	80.9
72.5°	3506.2	106.5	76.9	83.8	68.0
75°	2593.1	85.8	64.1	66.1	58.2
77.5°	1804.3	67.0	50.3	56.2	54.2
80°	1088.5	42.4	40.4	46.3	42.4
82.5°	527.5	27.6	31.6	36.5	33.5
85°	172.5	16.8	23.7	30.6	28.6
87.5°	21.7	9.9	19.7	26.6	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)