

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-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 (P23767)  
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-UNV-L735-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

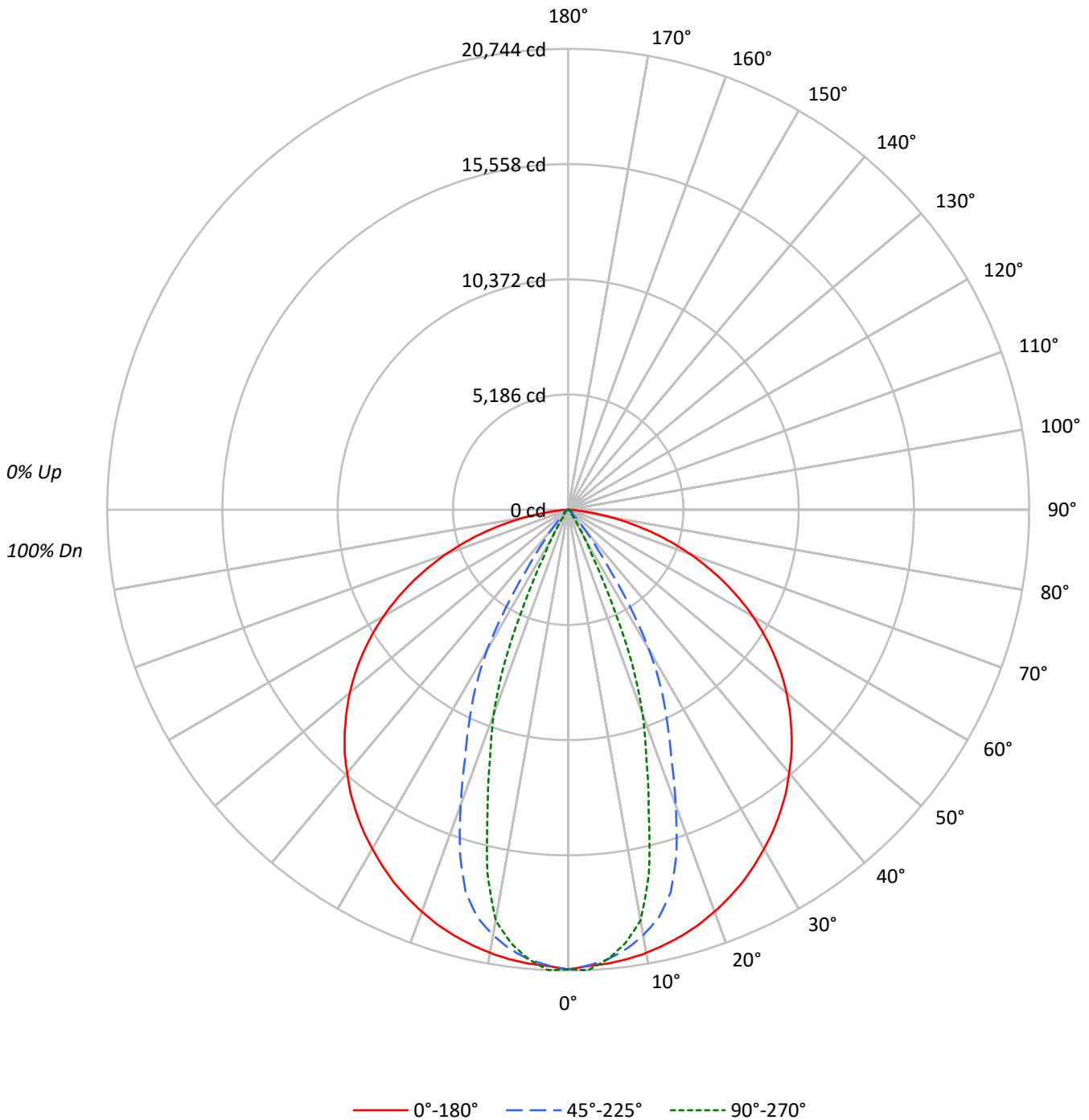
Lumens per Lamp: N/A  
Luminaire Lumens: 21995.0 lumens  
Efficiency: N/A  
Efficacy: 142.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	76	81	77	74	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

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

	0°	45°	90°
0°	27843	27843	27843
5°	27695	27450	27438
10°	27677	26570	25638
15°	27638	24823	19512
20°	27574	20236	14045
25°	27504	15647	6919
30°	27382	11372	2244
35°	27317	5045	577
40°	27174	2049	389
45°	27053	575	414
50°	26842	408	459
55°	26455	485	196
60°	25802	540	119
65°	24741	345	141
70°	22984	306	174
75°	20108	230	241
80°	15034	282	343
85°	7447	364	455



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1920.4	8.7
10°-20°	4802.0	21.8
20°-30°	5201.3	23.6
30°-40°	3851.8	17.5
40°-50°	2774.3	12.6
50°-60°	1717.8	7.8
60°-70°	1056.4	4.8
70°-80°	556.9	2.5
80°-90°	114.0	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°	11923.8	54.2
0°-40°	15775.6	71.7
0°-60°	20267.7	92.1
0°-90°	21995.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21995.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20694	20694	20694	20694	20694	
5°	20505	20581	20324	20338	20315	###
15°	19841	19381	17820	15154	14008	5601
25°	18526	16970	10539	6630	4660	8536
35°	16631	11725	3072	723	351	10405
45°	14217	6606	302	218	218	10964
55°	11278	1360	207	187	84	10068
65°	7771	144	108	69	44	7667
75°	3868	34	44	58	46	4085
85°	482	13	24	35	30	729
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	20693.9	20693.9	20693.9	20693.9	20693.9
2.5°	20561.0	20691.9	20537.4	20652.5	20744.1
5°	20504.9	20580.7	20323.7	20338.5	20314.9
7.5°	20406.4	20388.7	19956.6	19767.5	19684.8
10°	20257.8	20140.6	19447.6	19052.8	18765.4
12.5°	20065.8	19804.0	18812.6	17557.5	16777.8
15°	19841.4	19380.7	17820.3	15154.5	14007.6
17.5°	19573.6	18920.9	16198.0	12701.2	11677.4
20°	19257.6	18408.0	14132.6	10806.2	9809.0
22.5°	18905.2	17783.9	12126.3	8981.0	7558.5
25°	18526.2	16969.8	10539.4	6630.2	4660.3
27.5°	18088.1	15923.3	9050.9	3905.3	2378.4
30°	17624.4	14663.2	7319.3	2100.8	1444.2
32.5°	17156.8	13234.8	5179.1	1312.3	819.1
35°	16631.1	11724.7	3071.5	722.6	351.4
37.5°	16082.8	10340.5	1815.3	328.8	225.4
40°	15471.4	9075.5	1166.6	218.5	221.5
42.5°	14880.8	7896.2	656.6	215.6	219.5
45°	14217.3	6605.6	302.2	218.5	217.6
47.5°	13531.1	5267.7	195.9	220.5	220.5
50°	12823.3	3766.5	194.9	225.4	219.5
52.5°	12076.1	2349.9	202.8	224.5	180.2
55°	11277.7	1360.5	206.7	187.0	83.7
57.5°	10450.8	802.3	208.7	107.3	47.3
60°	9588.4	444.0	200.8	79.7	44.3
62.5°	8699.5	211.7	158.5	74.8	43.3
65°	7771.2	143.7	108.3	68.9	44.3
67.5°	6807.4	111.2	85.6	65.0	45.3
70°	5842.6	82.7	77.8	65.0	44.3
72.5°	4862.1	56.1	65.0	66.0	44.3
75°	3867.9	33.5	44.3	58.1	46.3
77.5°	2882.4	20.7	34.5	60.1	56.1
80°	1940.3	17.7	36.4	56.1	44.3
82.5°	1139.0	15.8	35.4	43.3	35.4
85°	482.4	12.8	23.6	35.4	29.5
87.5°	90.6	10.8	18.7	28.5	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)