

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-L740-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-L740-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

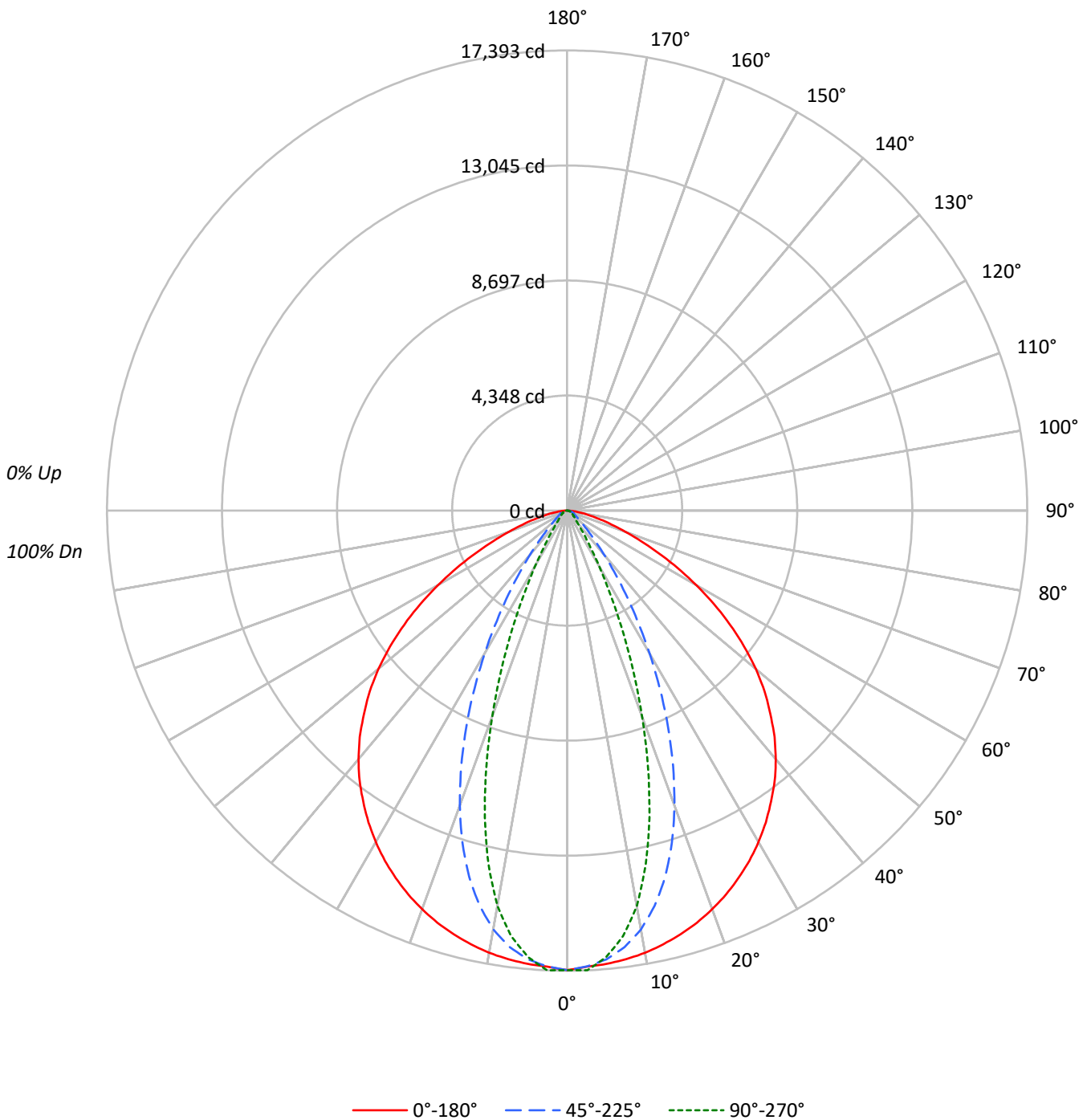
Lumens per Lamp: N/A  
Luminaire Lumens: 19015.0 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	23370	23370	23370
5°	23229	22998	22877
10°	23190	21957	20719
15°	23097	19958	16733
20°	22958	16983	11860
25°	22753	13391	7165
30°	22476	9665	3683
35°	22071	6319	1839
40°	21547	3795	1073
45°	20652	2266	802
50°	19479	1482	674
55°	17629	1125	588
60°	15150	958	537
65°	12186	874	507
70°	9181	936	504
75°	6753	889	518
80°	4940	886	567
85°	3700	1073	735



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1599.6	8.4
10°-20°	3979.4	20.9
20°-30°	4407.8	23.2
30°-40°	3531.4	18.6
40°-50°	2521.0	13.3
50°-60°	1619.3	8.5
60°-70°	877.5	4.6
70°-80°	375.1	2.0
80°-90°	104.0	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°	9986.8	52.5
0°-40°	13518.2	71.1
0°-60°	17658.4	92.9
0°-90°	19015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19015.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17369	17369	17369	17369	17369	
5°	17199	17263	17028	16974	16938	###
15°	16581	16062	14328	12662	12012	4678
25°	15326	13514	9020	5877	4827	7060
35°	13437	9719	3847	1552	1120	8401
45°	10854	5611	1191	507	422	8366
55°	7515	2508	479	295	251	6698
65°	3828	1030	274	189	159	3833
75°	1299	377	171	119	100	1443
85°	240	100	70	58	48	293
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	17368.8	17368.8	17368.8	17368.8	17368.8
2.5°	17254.5	17362.4	17246.2	17318.5	17392.6
5°	17198.7	17262.7	17027.6	16973.6	16937.9
7.5°	17101.7	17083.4	16641.5	16355.2	16217.1
10°	16973.6	16825.4	16070.7	15441.3	15165.0
12.5°	16790.7	16485.1	15297.7	14192.6	13724.2
15°	16581.2	16062.5	14328.0	12662.1	12012.5
17.5°	16330.5	15568.5	13168.9	11020.9	10163.7
20°	16034.1	14972.0	11860.7	9277.2	8282.8
22.5°	15702.9	14284.0	10460.1	7539.1	6472.4
25°	15326.0	13513.8	9020.2	5876.8	4826.6
27.5°	14918.9	12658.4	7588.5	4391.2	3433.3
30°	14467.0	11732.6	6220.8	3166.2	2370.3
32.5°	13973.9	10748.3	4950.1	2226.7	1621.1
35°	13436.9	9719.1	3846.8	1551.5	1119.7
37.5°	12887.1	8668.9	2905.5	1096.9	803.2
40°	12267.8	7622.3	2160.8	803.2	611.1
42.5°	11602.7	6595.9	1599.1	618.4	494.9
45°	10853.5	5610.6	1191.1	506.8	421.7
47.5°	10127.1	4692.1	904.8	431.8	366.8
50°	9305.6	3863.3	708.1	376.9	322.0
52.5°	8433.8	3134.2	574.5	332.1	283.6
55°	7515.3	2508.4	479.4	294.6	250.7
57.5°	6584.9	1987.0	409.8	262.6	223.2
60°	5629.8	1589.0	355.9	235.1	199.4
62.5°	4697.6	1270.7	311.0	211.3	178.4
65°	3827.6	1030.1	274.4	189.4	159.2
67.5°	3023.5	814.2	256.2	170.2	143.6
70°	2333.7	634.0	237.9	151.9	128.1
72.5°	1768.4	486.7	210.4	135.4	113.4
75°	1299.0	376.9	171.1	118.9	99.7
77.5°	929.5	290.0	139.1	103.4	86.0
80°	637.6	215.9	114.4	88.7	73.2
82.5°	414.4	152.8	92.4	73.2	60.4
85°	239.7	99.7	69.5	57.6	47.6
87.5°	103.4	54.9	47.6	43.0	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)