

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-W-CLWG-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 (P33385)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-24SE-W-CLWG-UNV-L735-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20820.0 lumens  
Efficiency: N/A  
Efficacy: 135.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

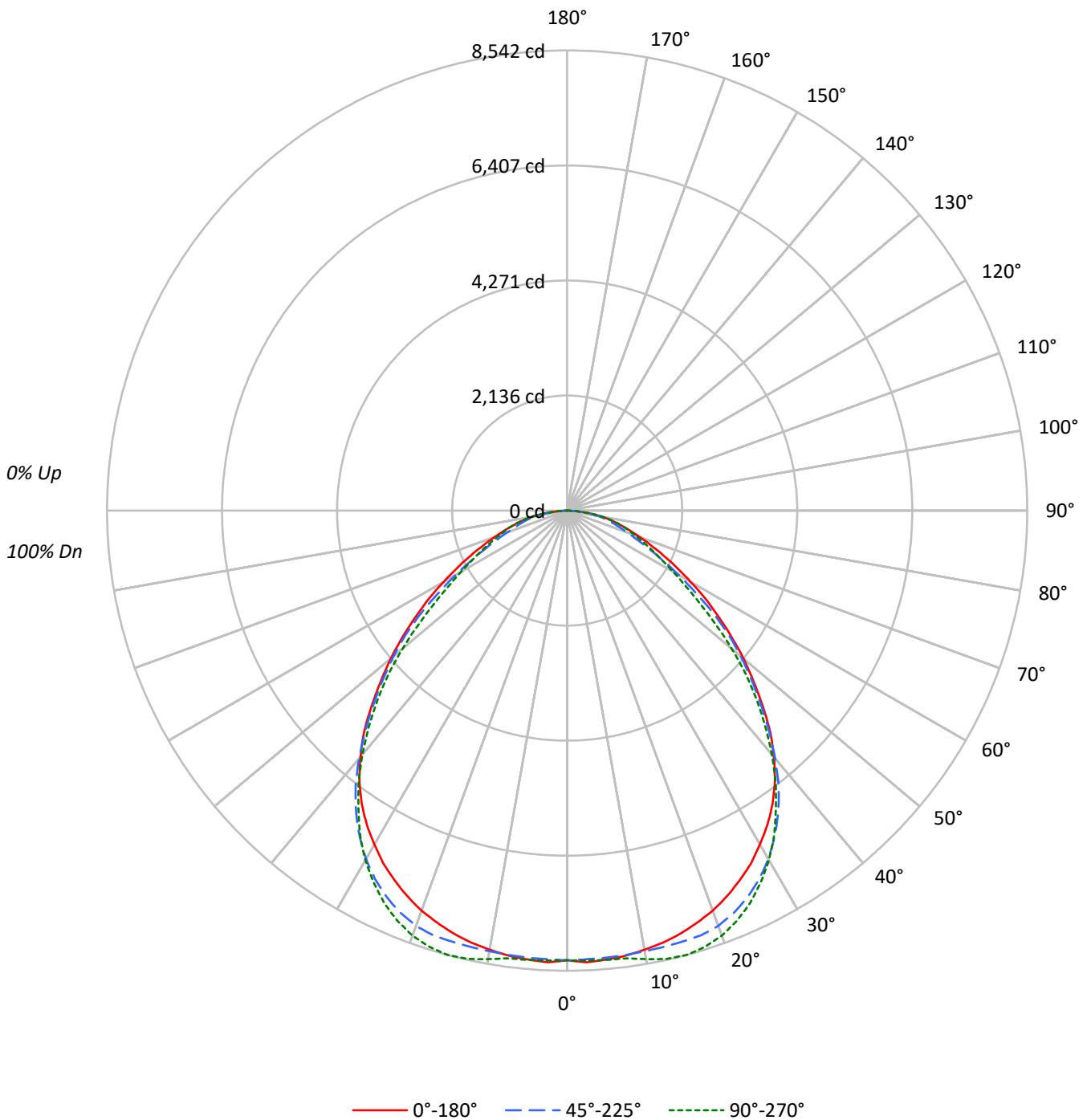
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57					55				
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30					28				

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

	0°	45°	90°
0°	11232	11232	11232
5°	11299	11252	11307
10°	11309	11347	11550
15°	11323	11536	11899
20°	11315	11747	12021
25°	11246	11757	11930
30°	11117	11602	11639
35°	10918	11226	11091
40°	10488	10552	10385
45°	9772	9670	9473
50°	8947	8803	8352
55°	8036	7738	7062
60°	7127	6403	6096
65°	6280	5320	5532
70°	5616	4616	5269
75°	5261	4489	5329
80°	5122	4538	5072
85°	4089	3591	3724



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	795.3	3.8
10°-20°	2342.5	11.3
20°-30°	3603.6	17.3
30°-40°	4205.6	20.2
40°-50°	3908.1	18.8
50°-60°	2896.8	13.9
60°-70°	1770.9	8.5
70°-80°	1008.7	4.8
80°-90°	288.5	1.4
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°	6741.3	32.4
0°-40°	10946.9	52.6
0°-60°	17751.9	85.3
0°-90°	20820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20820.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8348	8348	8348	8348	8348	
5°	8365	8327	8331	8324	8372	796
15°	8129	8124	8282	8445	8542	2294
25°	7575	7633	7920	7986	8036	3489
35°	6647	6699	6834	6778	6753	4142
45°	5136	5166	5082	5002	4978	3957
55°	3426	3340	3299	3064	3010	3074
65°	1972	1792	1671	1716	1738	1974
75°	1012	950	864	984	1025	1083
85°	265	258	233	241	241	305
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8348.2	8348.2	8348.2	8348.2	8348.2
2.5°	8393.4	8346.1	8337.5	8318.1	8361.1
5°	8365.4	8326.7	8331.0	8324.5	8371.9
7.5°	8333.1	8305.2	8322.4	8320.2	8382.7
10°	8277.2	8262.1	8305.2	8352.5	8453.7
12.5°	8214.7	8199.6	8294.4	8415.0	8524.8
15°	8128.6	8124.3	8281.5	8445.1	8542.0
17.5°	8020.9	8027.4	8266.4	8406.4	8492.5
20°	7902.5	7913.3	8204.0	8318.1	8395.6
22.5°	7749.6	7786.2	8083.4	8178.1	8238.4
25°	7575.2	7633.3	7919.7	7986.5	8036.0
27.5°	7387.9	7446.0	7717.3	7751.8	7779.8
30°	7155.3	7237.1	7467.5	7471.8	7491.2
32.5°	6918.4	6991.7	7168.2	7148.8	7153.2
35°	6647.1	6698.8	6834.5	6778.5	6752.6
37.5°	6334.9	6362.9	6449.0	6365.1	6360.8
40°	5971.0	6007.6	6007.6	5891.3	5912.9
42.5°	5583.4	5596.3	5542.5	5432.7	5449.9
45°	5135.5	5165.7	5081.7	5002.0	4978.4
47.5°	4692.0	4722.1	4633.8	4541.2	4500.3
50°	4274.2	4259.2	4205.3	4048.1	3990.0
52.5°	3841.4	3794.1	3772.5	3542.1	3475.4
55°	3425.8	3339.7	3298.8	3064.1	3010.3
57.5°	3040.4	2885.4	2807.9	2624.8	2603.3
60°	2648.5	2474.1	2379.4	2260.9	2265.2
62.5°	2293.2	2110.2	1996.1	1961.6	1976.7
65°	1972.4	1791.5	1670.9	1716.2	1737.7
67.5°	1681.7	1533.1	1397.5	1503.0	1524.5
70°	1427.6	1309.2	1173.5	1328.6	1339.3
72.5°	1216.6	1119.7	1005.6	1152.0	1175.7
75°	1012.0	949.6	863.5	984.0	1025.0
77.5°	833.3	783.8	734.3	807.5	852.7
80°	661.1	611.5	585.7	624.4	654.6
82.5°	467.3	435.0	409.1	437.1	452.2
85°	264.9	258.4	232.6	241.2	241.2
87.5°	60.3	68.9	77.5	71.1	60.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)