

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: P730731

Luminaire Tested: **HBLED-LD5-24SE-N-CL-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-N-CL-UNV-L740
Description: 24000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23083.0 lumens
Efficiency: N/A
Efficacy: 153.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

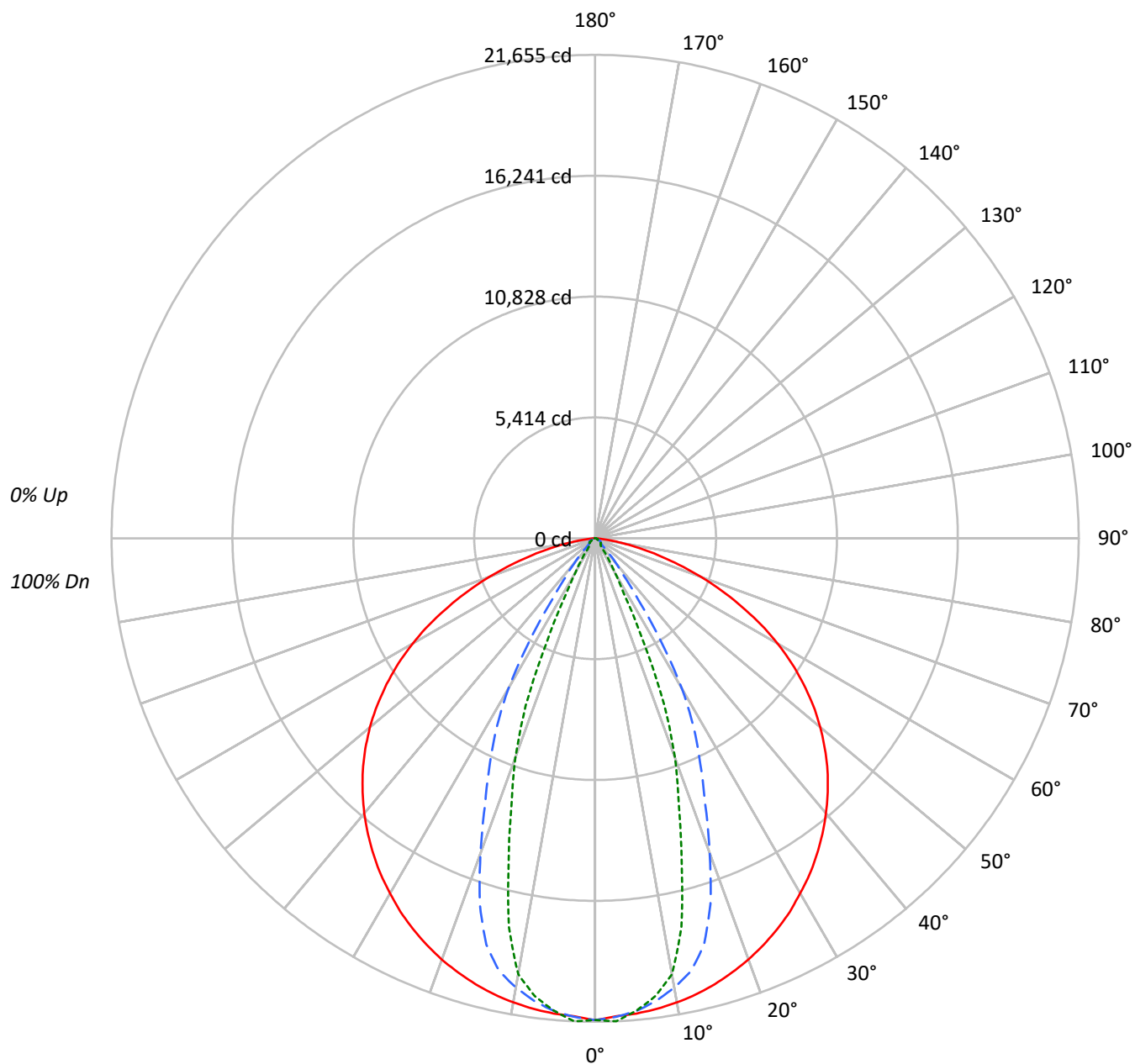
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	34848	34848	34848
5°	34634	34453	34428
10°	34611	33501	32512
15°	34571	31503	24999
20°	34504	25780	17931
25°	34395	19863	9112
30°	34233	14496	3315
35°	34110	6657	1154
40°	33900	3021	796
45°	33599	1127	807
50°	33063	819	849
55°	32085	861	647
60°	30490	920	571
65°	27650	701	464
70°	23708	506	428
75°	18120	448	407
80°	11338	421	442
85°	3581	491	595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2009.4	8.7
10°-20°	5061.8	21.9
20°-30°	5512.5	23.9
30°-40°	4123.6	17.9
40°-50°	2965.0	12.8
50°-60°	1821.0	7.9
60°-70°	1047.8	4.5
70°-80°	467.7	2.0
80°-90°	74.2	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°	12583.7	54.5
0°-40°	16707.4	72.4
0°-60°	21493.3	93.1
0°-90°	23083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23083.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21583	21583	21583	21583	21583	
5°	21369	21470	21257	21277	21242	###
15°	20682	20286	18846	16186	14955	5838
25°	19307	17922	11150	7154	5115	8900
35°	17306	12412	3377	993	585	10825
45°	14715	6974	494	366	354	11336
55°	11398	1449	306	296	230	10162
65°	7237	159	183	152	122	7164
75°	2905	96	72	74	65	3152
85°	193	19	26	34	32	385
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21583.2	21583.2	21583.2	21583.2	21583.2
2.5°	21433.0	21573.3	21455.1	21561.1	21655.0
5°	21369.0	21469.5	21257.4	21277.2	21242.0
7.5°	21258.5	21282.8	20899.6	20751.6	20679.7
10°	21110.5	21045.4	20433.5	20081.2	19830.5
12.5°	20923.9	20708.5	19853.6	18595.7	17845.8
15°	20682.0	20285.5	18846.4	16185.8	14955.4
17.5°	20393.7	19843.7	17178.6	13489.7	12425.1
20°	20081.2	19355.5	15003.9	11469.8	10435.9
22.5°	19712.3	18731.5	12859.1	9539.1	8120.0
25°	19306.9	17922.0	11149.5	7153.6	5114.8
27.5°	18869.6	16853.9	9566.7	4386.9	2765.5
30°	18361.5	15554.0	7775.4	2461.9	1778.2
32.5°	17865.6	14038.7	5554.3	1640.1	1136.5
35°	17305.6	12411.9	3377.4	992.9	585.3
37.5°	16712.5	10932.9	2113.9	540.0	404.2
40°	16084.1	9530.3	1433.5	383.3	377.8
42.5°	15412.6	8261.3	897.9	364.4	376.6
45°	14714.6	6973.5	493.7	365.6	353.5
47.5°	13957.0	5575.3	344.6	345.7	344.6
50°	13162.9	3999.2	325.9	341.3	338.0
52.5°	12306.9	2482.8	326.9	333.5	299.3
55°	11398.0	1449.0	305.9	296.0	229.7
57.5°	10442.5	903.4	299.3	244.1	206.5
60°	9441.9	477.2	284.9	219.8	176.7
62.5°	8376.1	235.3	228.6	187.8	144.7
65°	7237.4	159.1	183.4	152.4	121.5
67.5°	6137.4	143.5	138.1	124.8	106.0
70°	5022.0	131.4	107.1	109.3	90.6
72.5°	3927.5	119.2	86.1	93.9	76.2
75°	2904.7	96.1	71.8	74.0	65.2
77.5°	2021.1	75.1	56.4	63.0	60.7
80°	1219.4	47.5	45.3	51.9	47.5
82.5°	590.9	30.9	35.4	40.8	37.5
85°	193.3	18.8	26.5	34.2	32.1
87.5°	24.3	11.1	22.1	29.8	27.6
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)