

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: P730664

Luminaire Tested: **HBLED-LD5-24HE-N-CL-WG-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33344)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-N-CL-WG-UNV-L735
Description: 24000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS, WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22163.0 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

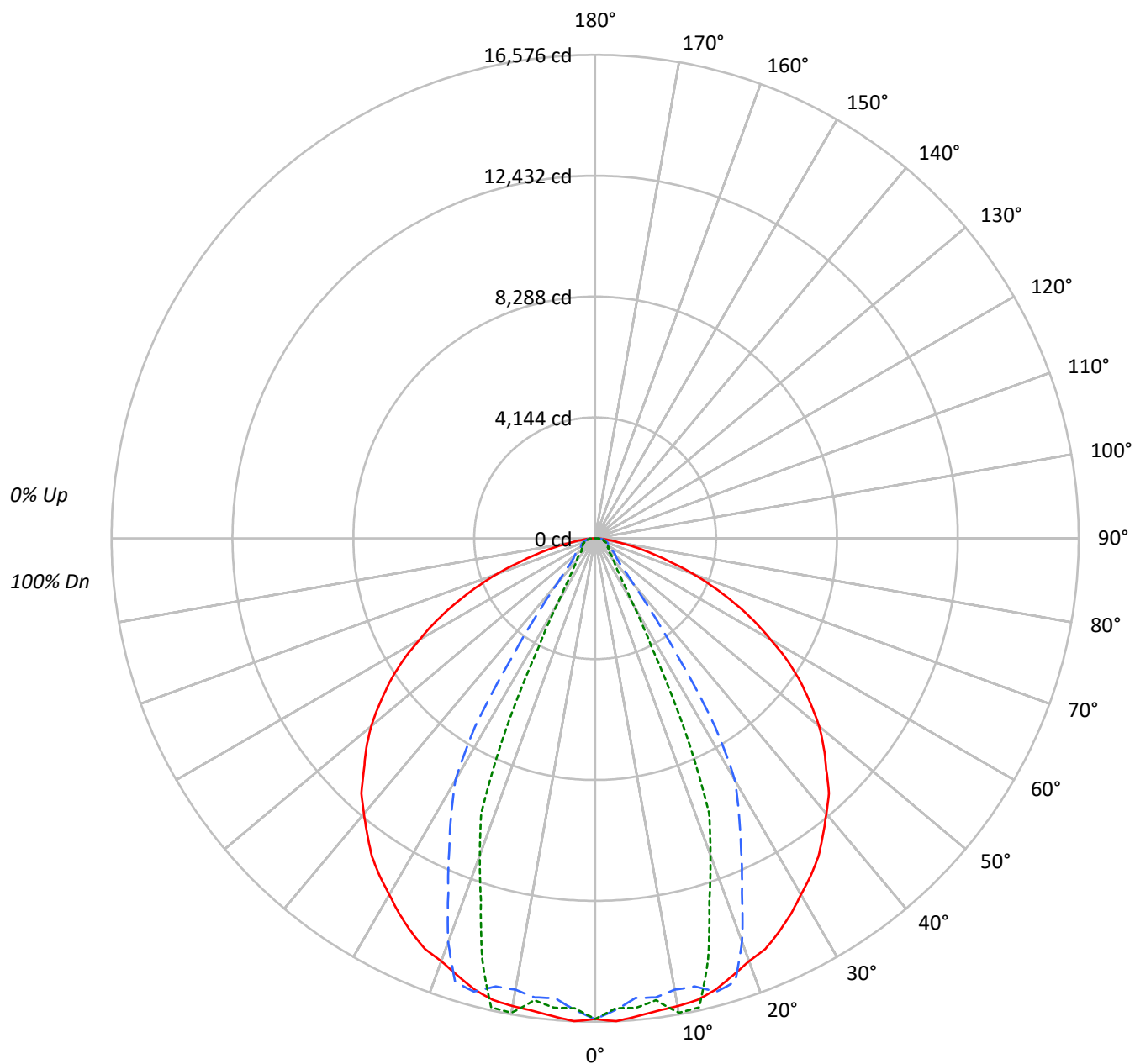
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89		
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79		
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64		
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58		
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41		
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26618	26618	26618
5°	26662	25646	26187
10°	26701	25770	27092
15°	26760	26899	25001
20°	26507	25300	19844
25°	26545	21092	12963
30°	26307	17868	4657
35°	26280	9680	2619
40°	25982	4220	2051
45°	25580	2608	1608
50°	25182	2272	1518
55°	24192	1970	1485
60°	22445	1765	1597
65°	20175	1995	1744
70°	16921	2145	1799
75°	12649	2447	1948
80°	7944	2841	2220
85°	5291	3561	3251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1528.0	6.9
10°-20°	4314.8	19.5
20°-30°	5283.6	23.8
30°-40°	4149.2	18.7
40°-50°	3076.9	13.9
50°-60°	1873.2	8.5
60°-70°	1122.0	5.1
70°-80°	615.6	2.8
80°-90°	199.7	0.9
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°	11126.4	50.2
0°-40°	15275.6	68.9
0°-60°	20225.7	91.3
0°-90°	22163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22163.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16486	16486	16486	16486	16486	
5°	16450	16003	15824	15998	16157	###
15°	16009	15570	16093	15443	14957	4507
25°	14900	14947	11840	9286	7276	6859
35°	13333	12128	4911	1643	1329	8319
45°	11203	8044	1142	866	704	8663
55°	8594	2217	700	592	528	7648
65°	5281	653	522	491	457	5217
75°	2028	412	392	341	312	2196
85°	286	224	192	177	176	348
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16486.0	16486.0	16486.0	16486.0	16486.0
2.5°	16575.9	16352.6	16181.5	16086.0	16124.8
5°	16450.4	16002.6	15823.7	15998.2	16157.1
7.5°	16341.5	15676.0	15878.2	15893.8	15977.1
10°	16286.0	15644.9	15718.2	16063.7	16524.8
12.5°	16212.7	15717.1	15742.6	16213.7	16473.7
15°	16009.3	15570.4	16092.6	15442.7	14957.1
17.5°	15712.6	15228.2	15945.9	13680.5	13020.6
20°	15427.1	14856.0	14724.9	12186.1	11549.5
22.5°	15242.7	14799.4	13153.9	10858.4	10200.6
25°	14900.5	14947.1	11839.5	9286.2	7276.4
27.5°	14523.8	14599.4	10677.3	6193.1	4168.7
30°	14110.5	14197.2	9584.0	3659.8	2497.7
32.5°	13736.1	13247.2	7654.1	2283.2	1736.6
35°	13332.8	12128.3	4910.9	1643.3	1328.9
37.5°	12825.0	10952.8	3108.7	1299.9	1115.5
40°	12327.3	9897.3	2002.1	1109.9	973.3
42.5°	11861.7	9027.4	1456.6	970.0	878.9
45°	11202.9	8044.1	1142.2	865.5	704.4
47.5°	10632.9	6890.9	998.8	732.2	607.8
50°	10025.1	5268.7	904.4	651.1	604.5
52.5°	9304.0	3446.5	835.5	623.3	564.4
55°	8594.1	2216.6	699.9	592.2	527.7
57.5°	7827.4	1405.5	617.8	574.4	551.1
60°	6950.8	947.7	546.7	544.4	494.4
62.5°	6139.7	778.8	527.7	522.2	467.8
65°	5280.9	653.3	522.2	491.1	456.6
67.5°	4423.1	560.0	472.2	448.8	418.8
70°	3584.3	512.2	454.4	444.4	381.0
72.5°	2722.1	422.2	403.3	376.7	316.7
75°	2027.7	412.2	392.2	341.1	312.2
77.5°	1372.2	380.0	356.7	305.6	282.2
80°	854.4	348.9	305.6	267.8	238.8
82.5°	507.7	291.1	251.1	221.1	202.2
85°	285.6	224.5	192.2	176.7	175.5
87.5°	61.1	81.1	64.4	61.1	43.3
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)