

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: P730691

Luminaire Tested: **HBLED-LD5-24HE-W-AI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-AI-UNV-L835
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21067.0 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

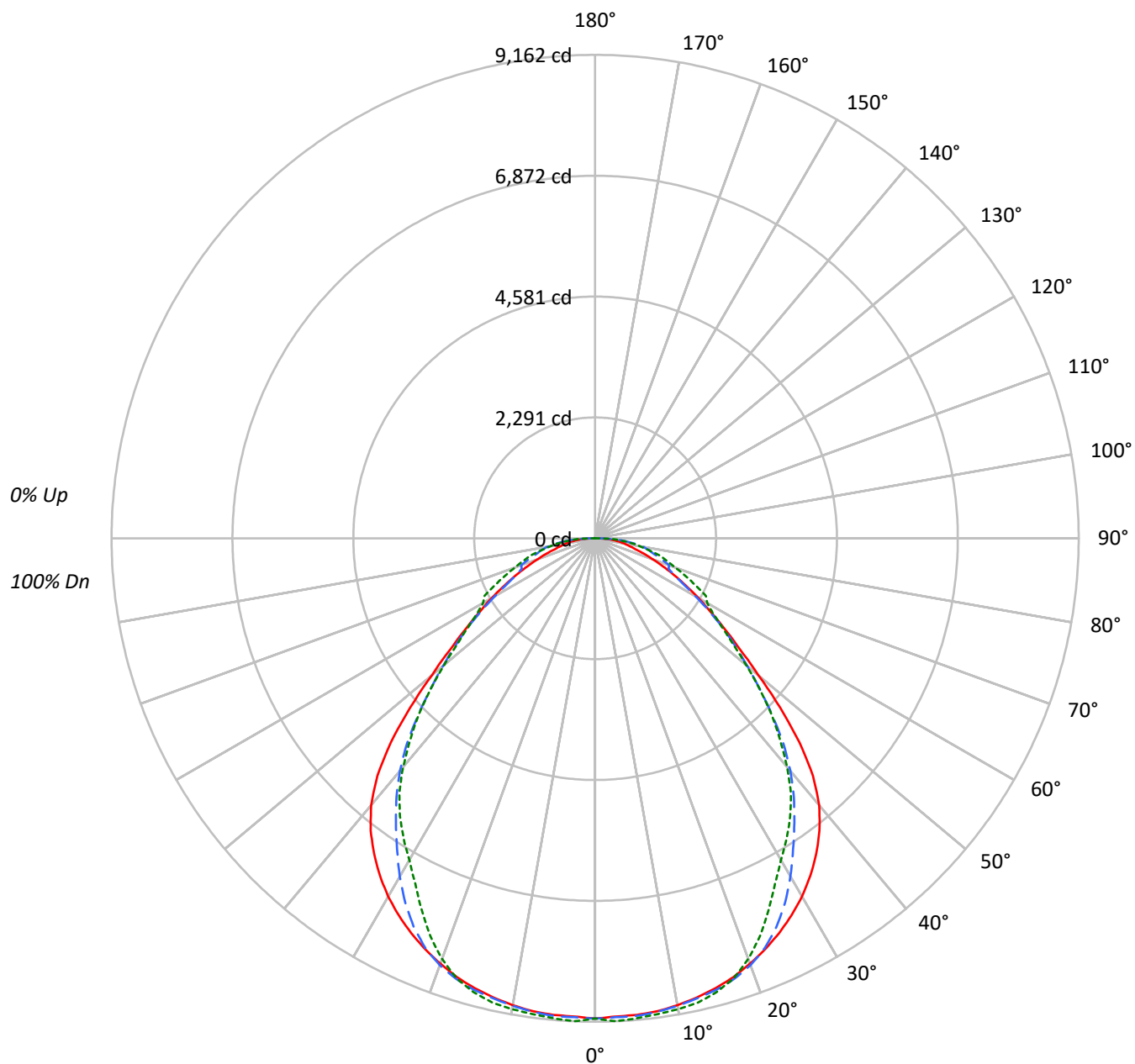
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	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	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14695	14695	14695
5°	14695	14726	14798
10°	14731	14750	14858
15°	14754	14809	14881
20°	14739	14794	14574
25°	14701	14481	13851
30°	14615	13798	13126
35°	14395	12969	12698
40°	13914	12126	11926
45°	12506	10828	10788
50°	10143	9431	9366
55°	8422	8266	8262
60°	7292	7079	7914
65°	6320	6280	7977
70°	5449	7045	7604
75°	4886	7221	7928
80°	5080	8499	7954
85°	5765	9796	9089



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	866.6	4.1
10°-20°	2502.8	11.9
20°-30°	3717.2	17.6
30°-40°	4220.0	20.0
40°-50°	3772.5	17.9
50°-60°	2608.3	12.4
60°-70°	1721.1	8.2
70°-80°	1161.2	5.5
80°-90°	497.3	2.4
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°	7086.5	33.6
0°-40°	11306.5	53.7
0°-60°	17687.4	84.0
0°-90°	21067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9102	9102	9102	9102	9102	
5°	9066	9122	9086	9123	9130	863
15°	8826	8869	8859	8909	8903	2491
25°	8252	8331	8129	7886	7775	3802
35°	7303	7150	6580	6484	6442	4554
45°	5477	5013	4742	4778	4724	4165
55°	2992	2731	2936	2895	2935	2718
65°	1654	1469	1644	1922	2088	1651
75°	783	985	1158	1237	1271	855
85°	311	433	529	532	491	325
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9101.6	9101.6	9101.6	9101.6	9101.6
2.5°	9070.7	9127.4	9085.1	9124.3	9162.4
5°	9066.5	9122.2	9086.1	9123.2	9130.5
7.5°	9040.8	9092.3	9050.0	9086.1	9094.4
10°	8985.1	9045.9	8996.4	9052.1	9062.4
12.5°	8913.0	8974.8	8931.5	9007.8	9011.9
15°	8826.4	8868.7	8859.4	8908.8	8902.7
17.5°	8717.1	8765.6	8758.4	8770.7	8741.9
20°	8578.0	8632.6	8609.9	8553.3	8482.2
22.5°	8428.6	8494.5	8404.9	8261.6	8161.6
25°	8252.3	8330.6	8128.7	7886.5	7775.1
27.5°	8057.5	8127.6	7791.6	7494.8	7379.4
30°	7839.1	7868.9	7401.0	7118.6	7040.3
32.5°	7586.5	7543.3	6983.6	6797.1	6751.7
35°	7303.2	7149.5	6579.6	6483.8	6442.5
37.5°	6983.6	6702.3	6180.8	6136.5	6093.1
40°	6601.3	6185.9	5753.1	5724.2	5658.2
42.5°	6107.6	5624.2	5277.9	5243.9	5185.1
45°	5476.8	5013.0	4742.0	4778.1	4724.5
47.5°	4751.2	4399.8	4227.7	4326.6	4227.7
50°	4038.0	3802.1	3754.6	3844.3	3728.9
52.5°	3453.7	3241.4	3339.3	3354.7	3285.7
55°	2991.9	2731.2	2936.3	2895.1	2935.2
57.5°	2590.0	2298.3	2550.8	2503.4	2641.5
60°	2258.1	1930.4	2192.2	2181.9	2450.8
62.5°	1932.5	1670.7	1880.9	2032.4	2363.2
65°	1654.2	1468.7	1643.9	1922.2	2088.1
67.5°	1387.2	1317.1	1503.7	1658.3	1839.7
70°	1154.3	1190.4	1492.3	1463.5	1610.8
72.5°	958.5	1081.2	1317.1	1322.3	1426.4
75°	783.3	985.3	1157.5	1236.8	1270.8
77.5°	651.4	893.6	1045.1	1072.9	1039.9
80°	546.3	787.4	914.1	901.8	855.4
82.5°	441.1	596.8	720.5	731.8	677.1
85°	311.2	432.9	528.8	531.8	490.6
87.5°	166.9	267.0	320.6	329.8	305.0
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)