

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: P730671

Luminaire Tested: **HBLED-LD5-24HE-N-CLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-N-CLI-UNV-L740
Description: 24000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22938.0 lumens
Efficiency: N/A
Efficacy: 160.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

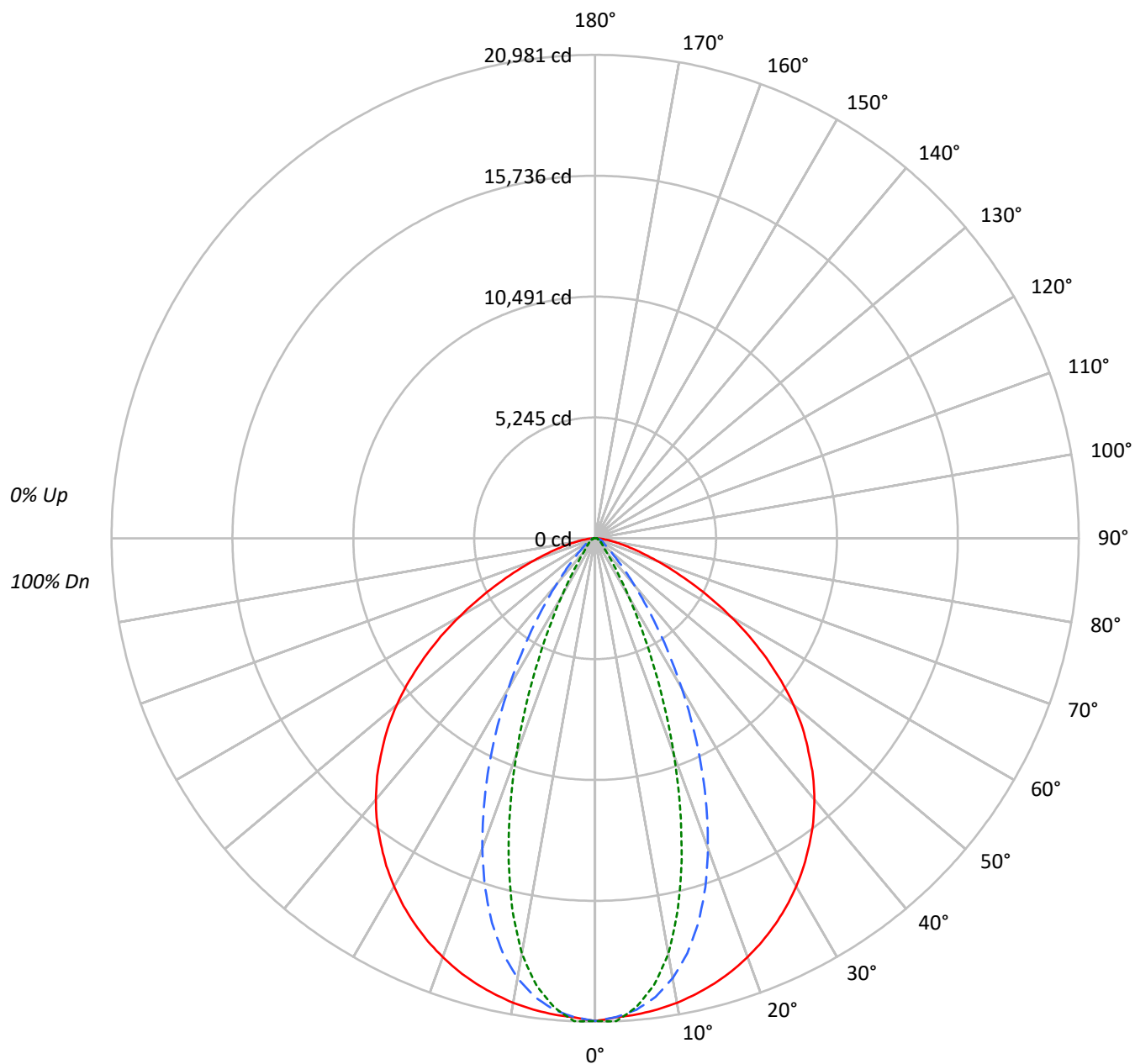
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	33829	33829	33829
5°	33626	33291	33116
10°	33569	31784	29992
15°	33434	28891	24222
20°	33234	24584	17168
25°	32936	19385	10373
30°	32536	13991	5331
35°	31949	9146	2662
40°	31191	5494	1554
45°	29895	3281	1162
50°	28197	2145	976
55°	25519	1628	851
60°	21930	1386	777
65°	17640	1265	734
70°	13289	1355	729
75°	9775	1288	750
80°	7152	1282	821
85°	5358	1554	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1929.6	8.4
10°-20°	4800.4	20.9
20°-30°	5317.2	23.2
30°-40°	4260.0	18.6
40°-50°	3041.1	13.3
50°-60°	1953.3	8.5
60°-70°	1058.6	4.6
70°-80°	452.5	2.0
80°-90°	125.5	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°	12047.1	52.5
0°-40°	16307.1	71.1
0°-60°	21301.5	92.9
0°-90°	22938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22938.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20952	20952	20952	20952	20952	
5°	20747	20824	20540	20475	20432	###
15°	20002	19376	17284	15274	14491	5644
25°	18488	16302	10881	7089	5822	8517
35°	16209	11724	4640	1872	1351	10135
45°	13093	6768	1437	611	509	10092
55°	9066	3026	578	355	302	8079
65°	4617	1243	331	228	192	4624
75°	1567	455	206	144	120	1741
85°	289	120	84	70	57	353
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20952.2	20952.2	20952.2	20952.2	20952.2
2.5°	20814.3	20944.5	20804.3	20891.4	20980.8
5°	20746.9	20824.2	20540.5	20475.4	20432.5
7.5°	20629.9	20607.9	20074.9	19729.5	19562.8
10°	20475.4	20296.6	19386.2	18627.0	18293.7
12.5°	20254.7	19886.2	18453.7	17120.6	16555.6
15°	20002.0	19376.3	17283.9	15274.4	14490.9
17.5°	19699.6	18780.4	15885.7	13294.6	12260.6
20°	19342.1	18060.9	14307.7	11191.2	9991.6
22.5°	18942.6	17231.0	12618.1	9094.4	7807.7
25°	18488.0	16301.8	10881.2	7089.3	5822.4
27.5°	17996.9	15270.0	9154.1	5297.1	4141.6
30°	17451.7	14153.2	7504.2	3819.5	2859.4
32.5°	16856.9	12965.8	5971.4	2686.0	1955.5
35°	16209.1	11724.3	4640.4	1871.6	1350.7
37.5°	15545.8	10457.3	3504.9	1323.1	968.9
40°	14798.7	9194.8	2606.6	968.9	737.1
42.5°	13996.5	7956.7	1929.1	745.9	597.0
45°	13092.6	6768.1	1436.9	611.4	508.8
47.5°	12216.5	5660.2	1091.4	520.9	442.5
50°	11225.5	4660.4	854.1	454.7	388.4
52.5°	10173.7	3780.8	693.0	400.6	342.1
55°	9065.7	3025.9	578.2	355.3	302.4
57.5°	7943.4	2396.9	494.4	316.7	269.3
60°	6791.3	1916.9	429.3	283.6	240.5
62.5°	5666.8	1532.9	375.2	254.9	215.2
65°	4617.3	1242.6	331.1	228.5	192.0
67.5°	3647.2	982.2	309.0	205.2	173.3
70°	2815.1	764.8	287.0	183.2	154.5
72.5°	2133.1	587.1	253.9	163.3	136.9
75°	1567.0	454.7	206.4	143.5	120.3
77.5°	1121.2	349.9	167.7	124.7	103.8
80°	769.2	260.5	137.9	107.0	88.3
82.5°	500.0	184.3	111.4	88.3	72.8
85°	289.2	120.3	83.9	69.5	57.3
87.5°	124.7	66.2	57.3	51.9	44.1
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)