

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: P730660

Luminaire Tested: **HBLED-LD5-24HE-N-CL-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730660
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-LD5-24HE-N-CL-UNV-L750
Description: 24000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23780.0 lumens
Efficiency: N/A
Efficacy: 166.3 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

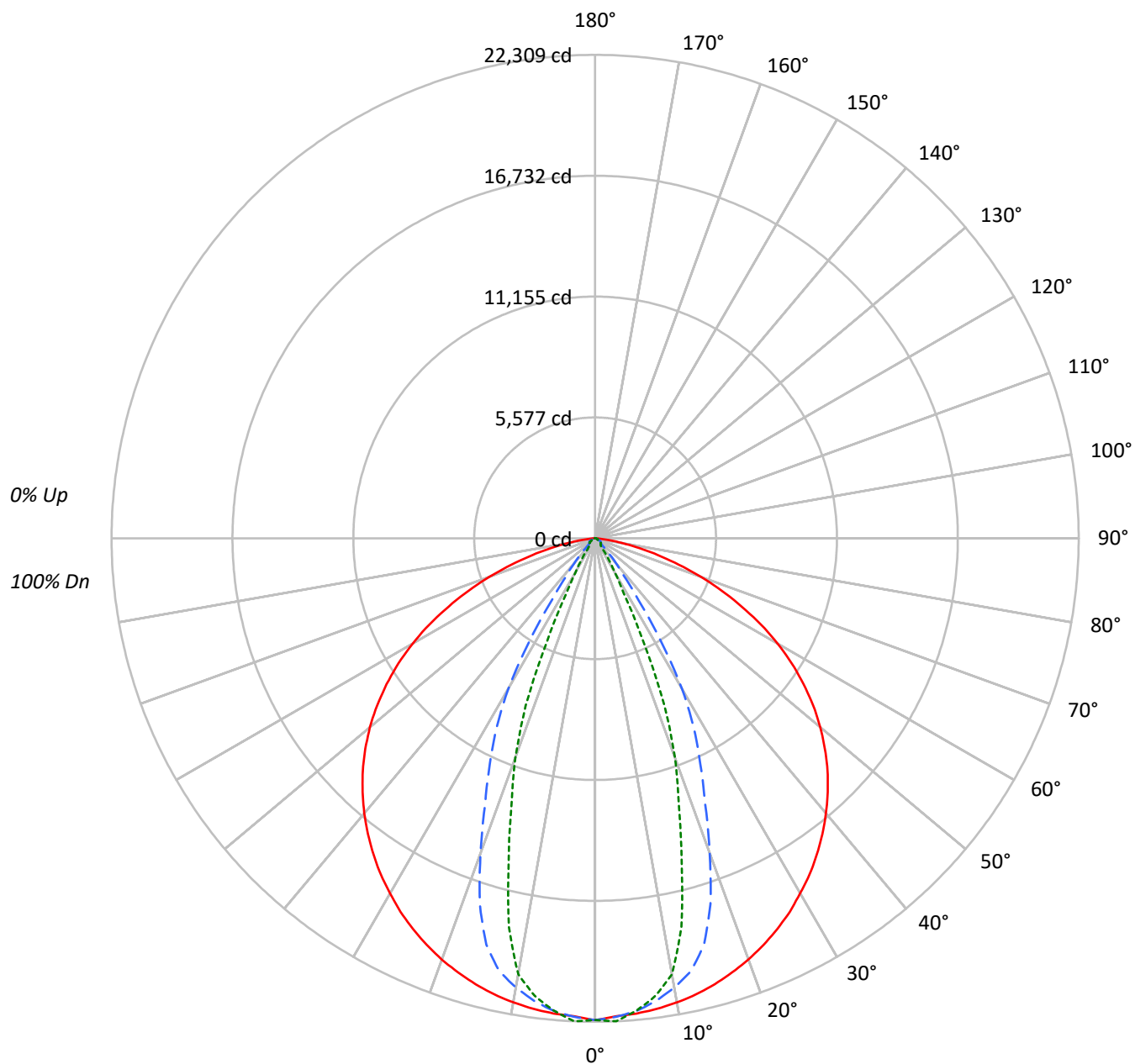
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	35900	35900	35900
5°	35680	35493	35468
10°	35656	34512	33494
15°	35615	32454	25753
20°	35546	26558	18473
25°	35434	20462	9387
30°	35266	14934	3415
35°	35140	6858	1189
40°	34924	3113	820
45°	34613	1161	831
50°	34062	843	875
55°	33053	887	666
60°	31411	948	588
65°	28485	722	478
70°	24423	521	440
75°	18667	462	419
80°	11680	434	456
85°	3688	506	611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2070.1	8.7
10°-20°	5214.6	21.9
20°-30°	5679.0	23.9
30°-40°	4248.2	17.9
40°-50°	3054.5	12.8
50°-60°	1876.0	7.9
60°-70°	1079.5	4.5
70°-80°	481.8	2.0
80°-90°	76.4	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°	12963.7	54.5
0°-40°	17211.9	72.4
0°-60°	22142.3	93.1
0°-90°	23780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22235	22235	22235	22235	22235	
5°	22014	22118	21899	21920	21883	###
15°	21306	20898	19416	16674	15407	6015
25°	19890	18463	11486	7370	5269	9169
35°	17828	12787	3479	1023	603	11152
45°	15159	7184	509	377	364	11678
55°	11742	1493	315	305	237	10469
65°	7456	164	189	157	125	7381
75°	2992	99	74	76	67	3247
85°	199	19	27	35	33	397
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22234.9	22234.9	22234.9	22234.9	22234.9
2.5°	22080.2	22224.7	22102.9	22212.2	22308.9
5°	22014.2	22117.7	21899.3	21919.7	21883.4
7.5°	21900.4	21925.4	21530.7	21378.2	21304.2
10°	21747.9	21680.8	21050.5	20687.6	20429.3
12.5°	21555.7	21333.8	20453.1	19157.2	18384.6
15°	21306.5	20898.0	19415.5	16674.5	15406.9
17.5°	21009.5	20442.9	17697.3	13897.1	12800.3
20°	20687.6	19940.0	15457.0	11816.1	10751.1
22.5°	20307.5	19297.1	13247.4	9827.2	8365.2
25°	19889.9	18463.1	11486.1	7369.6	5269.2
27.5°	19439.4	17362.8	9855.6	4519.3	2849.1
30°	18916.0	16023.7	8010.1	2536.2	1831.9
32.5°	18405.1	14462.6	5722.0	1689.6	1170.8
35°	17828.2	12786.7	3479.4	1022.9	603.0
37.5°	17217.2	11263.1	2177.8	556.4	416.4
40°	16569.8	9818.1	1476.8	394.9	389.2
42.5°	15878.0	8510.7	925.0	375.4	388.0
45°	15158.9	7184.1	508.6	376.6	364.1
47.5°	14378.4	5743.7	355.0	356.1	355.0
50°	13560.4	4119.9	335.7	351.6	348.2
52.5°	12678.5	2557.8	336.8	343.6	308.4
55°	11742.1	1492.8	315.2	305.0	236.7
57.5°	10757.9	930.7	308.4	251.5	212.7
60°	9727.1	491.6	293.5	226.5	182.0
62.5°	8629.1	242.4	235.5	193.4	149.1
65°	7456.0	163.9	188.9	157.0	125.1
67.5°	6322.7	147.9	142.3	128.5	109.2
70°	5173.6	135.4	110.3	112.6	93.3
72.5°	4046.1	122.8	88.7	96.7	78.5
75°	2992.4	99.0	74.0	76.2	67.2
77.5°	2082.1	77.4	58.1	64.9	62.6
80°	1256.2	49.0	46.7	53.5	49.0
82.5°	608.7	31.8	36.4	42.0	38.6
85°	199.1	19.3	27.3	35.2	33.0
87.5°	25.0	11.4	22.7	30.7	28.4
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)