

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: P730679

Luminaire Tested: **HBLED-LD5-24HE-N-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-N-UNV-L835
Description: 24000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23002.0 lumens
Efficiency: N/A
Efficacy: 160.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

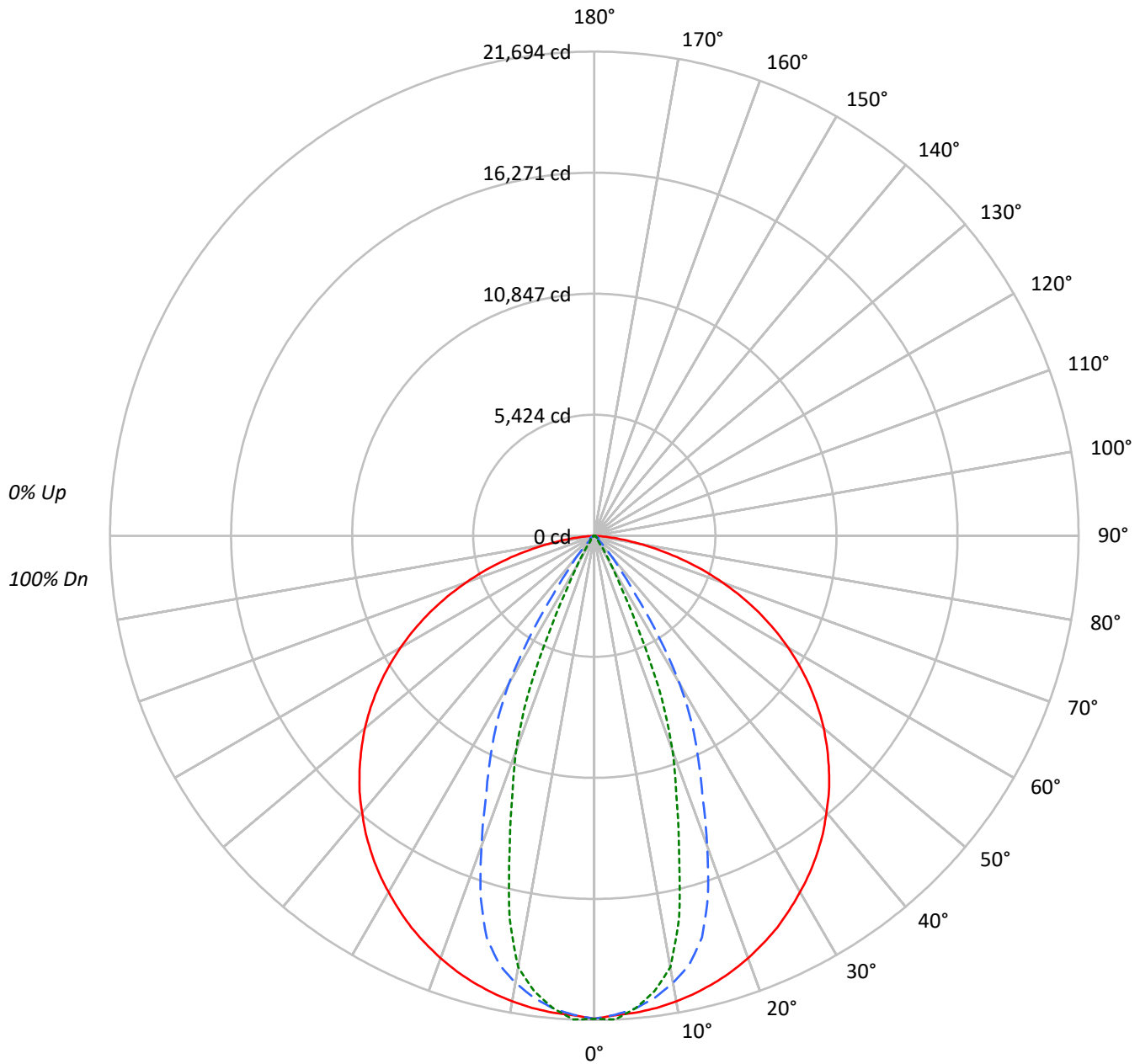
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		81
4	92	82	76	70	90	81	75	70	79	73	69		77	72	68		75
5	86	76	69	64	84	75	68	63	73	67	63		71	66	62		70
6	81	70	63	58	79	70	63	58	68	62	58		66	61	57		65
7	76	66	58	54	75	65	58	53	63	57	53		62	57	53		61
8	72	61	54	49	71	61	54	49	59	53	49		58	53	49		57
9	68	57	51	46	67	57	50	46	56	50	46		55	49	46		54
10	65	54	47	43	64	53	47	43	53	47	43		52	46	43		51

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34942	34942	34942
5°	34755	34448	34433
10°	34733	33344	32174
15°	34684	31151	24486
20°	34604	25394	17626
25°	34515	19636	8682
30°	34363	14271	2816
35°	34282	6331	725
40°	34102	2571	488
45°	33949	722	519
50°	33685	512	577
55°	33200	609	246
60°	32380	678	150
65°	31048	432	177
70°	28844	384	219
75°	25233	289	301
80°	18867	354	431
85°	9346	458	571



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2008.3	8.7
10°-20°	5021.9	21.8
20°-30°	5439.4	23.6
30°-40°	4028.1	17.5
40°-50°	2901.3	12.6
50°-60°	1796.5	7.8
60°-70°	1104.8	4.8
70°-80°	582.4	2.5
80°-90°	119.2	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°	12469.7	54.2
0°-40°	16497.8	71.7
0°-60°	21195.6	92.1
0°-90°	23002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21641	21641	21641	21641	21641	
5°	21444	21523	21254	21270	21245	###
15°	20750	20268	18636	15848	14649	5857
25°	19374	17747	11022	6934	4874	8927
35°	17393	12261	3212	756	368	10881
45°	14868	6908	316	228	228	11466
55°	11794	1423	216	196	88	10529
65°	8127	150	113	72	46	8018
75°	4045	35	46	61	48	4272
85°	504	13	25	37	31	762
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21641.3	21641.3	21641.3	21641.3	21641.3
2.5°	21502.3	21639.3	21477.7	21598.1	21693.8
5°	21443.6	21522.9	21254.2	21269.7	21245.0
7.5°	21340.7	21322.2	20870.2	20672.6	20586.1
10°	21185.3	21062.7	20338.0	19925.2	19624.5
12.5°	20984.5	20710.7	19674.0	18361.3	17546.0
15°	20749.8	20268.0	18636.2	15848.3	14648.9
17.5°	20469.7	19787.2	16939.5	13282.7	12212.1
20°	20139.3	19250.8	14779.6	11301.0	10258.1
22.5°	19770.7	18598.1	12681.6	9392.2	7904.6
25°	19374.3	17746.7	11021.9	6933.7	4873.7
27.5°	18916.2	16652.3	9465.3	4084.1	2487.3
30°	18431.4	15334.5	7654.4	2196.9	1510.3
32.5°	17942.3	13840.7	5416.2	1372.3	856.5
35°	17392.6	12261.4	3212.0	755.7	367.6
37.5°	16819.1	10814.0	1898.4	343.9	235.8
40°	16179.8	9491.1	1219.9	228.5	231.6
42.5°	15562.1	8257.7	686.7	225.4	229.6
45°	14868.1	6908.0	316.1	228.5	227.5
47.5°	14150.6	5508.9	204.8	230.6	230.6
50°	13410.4	3939.0	203.8	235.8	229.6
52.5°	12629.0	2457.5	212.1	234.8	188.4
55°	11794.1	1422.8	216.2	195.6	87.5
57.5°	10929.3	839.0	218.3	112.2	49.4
60°	10027.4	464.3	210.0	83.4	46.4
62.5°	9097.7	221.3	165.7	78.3	45.3
65°	8126.9	150.3	113.2	72.0	46.4
67.5°	7119.1	116.3	89.5	67.9	47.4
70°	6110.1	86.4	81.4	67.9	46.4
72.5°	5084.8	58.7	67.9	68.9	46.4
75°	4044.9	35.0	46.4	60.8	48.3
77.5°	3014.4	21.6	36.0	62.8	58.7
80°	2029.1	18.5	38.1	58.7	46.4
82.5°	1191.2	16.5	37.1	45.3	37.1
85°	504.5	13.4	24.7	37.1	30.8
87.5°	94.7	11.3	19.6	29.8	26.8
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)