

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: P730751

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730751
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-LD5-24SE-N-UNV-L835
Description: 24000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22865.0 lumens
Efficiency: N/A
Efficacy: 152.4 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

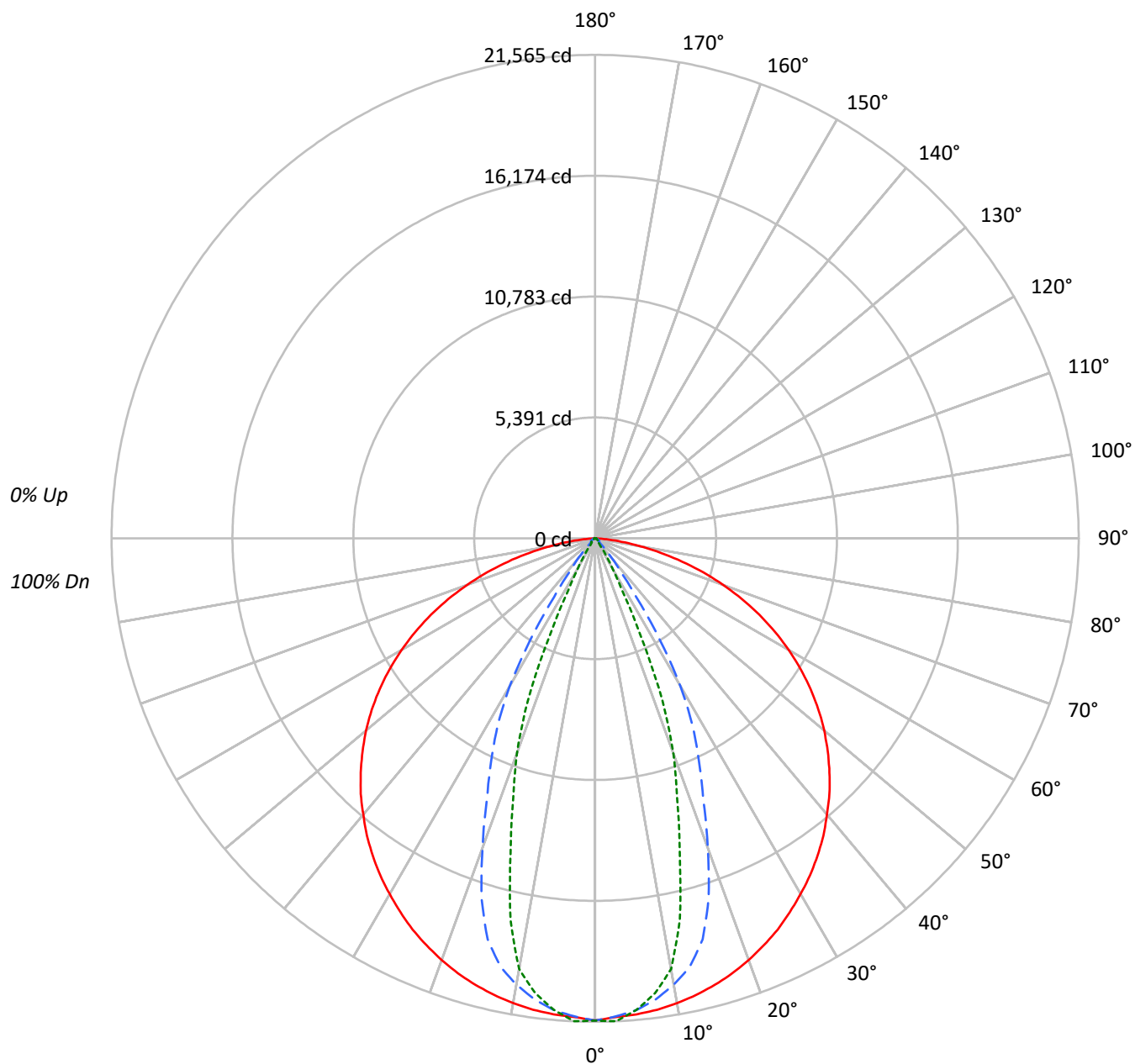
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34734	34734	34734
5°	34548	34243	34228
10°	34526	33146	31983
15°	34478	30966	24340
20°	34397	25243	17521
25°	34310	19519	8631
30°	34158	14186	2799
35°	34077	6293	720
40°	33899	2556	485
45°	33747	717	516
50°	33484	509	573
55°	33002	605	245
60°	32187	674	149
65°	30863	430	176
70°	28672	382	218
75°	25083	288	300
80°	18754	352	429
85°	9290	454	569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1996.4	8.7
10°-20°	4992.0	21.8
20°-30°	5407.1	23.6
30°-40°	4004.2	17.5
40°-50°	2884.0	12.6
50°-60°	1785.8	7.8
60°-70°	1098.2	4.8
70°-80°	578.9	2.5
80°-90°	118.5	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°	12395.4	54.2
0°-40°	16399.6	71.7
0°-60°	21069.3	92.1
0°-90°	22865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22865.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21512	21512	21512	21512	21512	
5°	21316	21395	21128	21143	21118	###
15°	20626	20147	18525	15754	14562	5823
25°	19259	17641	10956	6892	4845	8874
35°	17289	12188	3193	751	365	10816
45°	14780	6867	314	227	226	11398
55°	11724	1414	215	194	87	10466
65°	8078	149	112	72	46	7971
75°	4021	35	46	60	48	4247
85°	502	13	24	37	31	758
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21512.4	21512.4	21512.4	21512.4	21512.4
2.5°	21374.3	21510.4	21349.7	21469.5	21564.6
5°	21315.9	21394.7	21127.6	21143.0	21118.4
7.5°	21213.6	21195.2	20745.9	20549.4	20463.5
10°	21059.1	20937.3	20216.9	19806.5	19507.7
12.5°	20859.6	20587.3	19556.8	18252.0	17441.5
15°	20626.2	20147.3	18525.2	15753.9	14561.6
17.5°	20347.8	19669.3	16838.6	13203.6	12139.4
20°	20019.3	19136.1	14691.6	11233.6	10197.0
22.5°	19652.9	18487.3	12606.0	9336.3	7857.5
25°	19258.9	17641.0	10956.3	6892.4	4844.7
27.5°	18803.6	16553.2	9409.0	4059.8	2472.5
30°	18321.6	15243.2	7608.8	2183.9	1501.3
32.5°	17835.4	13758.3	5384.0	1364.2	851.4
35°	17289.0	12188.4	3192.9	751.2	365.4
37.5°	16718.9	10749.6	1887.1	341.9	234.4
40°	16083.4	9434.6	1212.7	227.1	230.2
42.5°	15469.4	8208.5	682.6	224.1	228.2
45°	14779.6	6866.8	314.2	227.1	226.2
47.5°	14066.3	5476.1	203.6	229.2	229.2
50°	13330.6	3915.5	202.6	234.4	228.2
52.5°	12553.8	2442.8	210.8	233.4	187.3
55°	11723.8	1414.3	214.9	194.4	87.0
57.5°	10864.2	834.0	217.0	111.5	49.1
60°	9967.7	461.5	208.8	82.9	46.1
62.5°	9043.6	220.0	164.7	77.8	45.0
65°	8078.5	149.4	112.5	71.6	46.1
67.5°	7076.7	115.6	89.0	67.5	47.1
70°	6073.7	85.9	80.9	67.5	46.1
72.5°	5054.5	58.3	67.5	68.5	46.1
75°	4020.8	34.8	46.1	60.4	48.1
77.5°	2996.4	21.5	35.8	62.4	58.3
80°	2017.0	18.4	37.9	58.3	46.1
82.5°	1184.1	16.4	36.9	45.0	36.9
85°	501.5	13.3	24.5	36.9	30.7
87.5°	94.1	11.3	19.5	29.7	26.6
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)