

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: P730735

Luminaire Tested: **HBLED-LD5-24SE-N-CL-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730735
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-LD5-24SE-N-CL-UNV-L850
Description: 24000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22466.0 lumens
Efficiency: N/A
Efficacy: 149.8 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

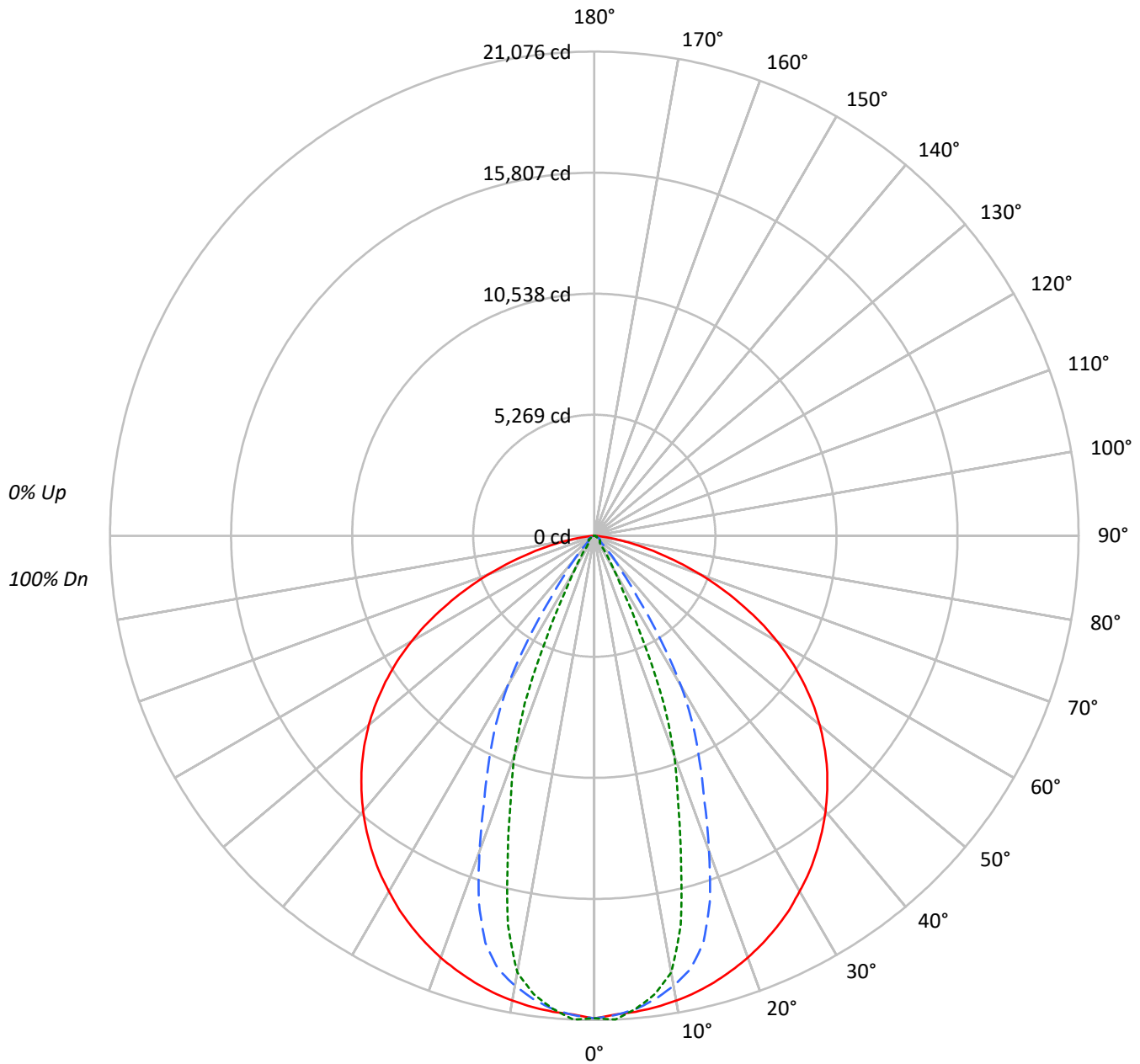
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	105	103	109	106	104	101	102	100	98		98	97	95		95
2	105	99	94	90	102	97	92	89	94	90	87		91	87	85		88
3	98	90	84	79	96	89	83	79	86	81	77		83	79	76		81
4	92	83	76	71	90	82	75	71	79	74	70		77	73	69		75
5	86	76	69	64	85	75	69	64	73	68	63		72	67	63		70
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65
7	77	66	59	54	75	65	58	54	64	58	53		62	57	53		61
8	72	61	55	50	71	61	54	50	60	54	49		59	53	49		58
9	69	58	51	46	67	57	51	46	56	50	46		55	50	46		54
10	65	54	48	43	64	54	47	43	53	47	43		52	47	43		51

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33917	33917	33917
5°	33708	33532	33508
10°	33685	32605	31643
15°	33647	30660	24330
20°	33581	25091	17452
25°	33476	19332	8868
30°	33318	14109	3226
35°	33199	6479	1123
40°	32994	2941	775
45°	32701	1097	785
50°	32180	797	826
55°	31227	838	629
60°	29675	895	555
65°	26911	682	452
70°	23074	492	416
75°	17636	436	396
80°	11035	410	430
85°	3485	478	578



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1955.7	8.7
10°-20°	4926.5	21.9
20°-30°	5365.2	23.9
30°-40°	4013.4	17.9
40°-50°	2885.7	12.8
50°-60°	1772.3	7.9
60°-70°	1019.8	4.5
70°-80°	455.2	2.0
80°-90°	72.2	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°	12247.3	54.5
0°-40°	16260.8	72.4
0°-60°	20918.8	93.1
0°-90°	22466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22466.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21006	21006	21006	21006	21006	
5°	20798	20896	20689	20708	20674	###
15°	20129	19743	18343	15753	14556	5682
25°	18791	17443	10851	6962	4978	8662
35°	16843	12080	3287	966	570	10536
45°	14321	6787	480	356	344	11033
55°	11093	1410	298	288	224	9890
65°	7044	155	178	148	118	6973
75°	2827	94	70	72	64	3068
85°	188	18	26	33	31	375
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21006.3	21006.3	21006.3	21006.3	21006.3
2.5°	20860.1	20996.6	20881.6	20984.8	21076.2
5°	20797.8	20895.6	20689.2	20708.5	20674.2
7.5°	20690.2	20713.9	20340.9	20196.9	20127.0
10°	20546.2	20482.8	19887.3	19544.4	19300.4
12.5°	20364.6	20155.0	19322.9	18098.6	17368.8
15°	20129.2	19743.3	18342.6	15753.2	14555.6
17.5°	19848.6	19313.3	16719.4	13129.2	12093.0
20°	19544.4	18838.2	14602.9	11163.2	10157.0
22.5°	19185.4	18230.8	12515.4	9284.2	7902.9
25°	18790.9	17442.9	10851.4	6962.4	4978.0
27.5°	18365.2	16403.4	9311.0	4269.6	2691.6
30°	17870.7	15138.3	7567.5	2396.0	1730.6
32.5°	17388.1	13663.5	5405.9	1596.2	1106.1
35°	16843.1	12080.1	3287.1	966.4	569.7
37.5°	16265.8	10640.7	2057.4	525.6	393.4
40°	15654.2	9275.5	1395.2	373.1	367.7
42.5°	15000.6	8040.4	873.9	354.7	366.5
45°	14321.3	6787.1	480.5	355.8	344.0
47.5°	13583.9	5426.3	335.4	336.4	335.4
50°	12811.1	3892.3	317.1	332.2	329.0
52.5°	11978.0	2416.5	318.2	324.6	291.3
55°	11093.3	1410.3	297.8	288.1	223.6
57.5°	10163.4	879.3	291.3	237.6	201.0
60°	9189.6	464.4	277.3	214.0	172.0
62.5°	8152.2	229.0	222.5	182.7	140.8
65°	7044.0	154.8	178.5	148.3	118.2
67.5°	5973.4	139.7	134.4	121.4	103.2
70°	4887.7	127.9	104.2	106.4	88.2
72.5°	3822.5	116.1	83.8	91.4	74.2
75°	2827.1	93.5	69.9	72.0	63.5
77.5°	1967.1	73.1	54.9	61.3	59.1
80°	1186.8	46.3	44.1	50.5	46.3
82.5°	575.1	30.1	34.4	39.7	36.5
85°	188.1	18.3	25.8	33.3	31.2
87.5°	23.6	10.8	21.5	29.0	26.9
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)