

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: P730748

Luminaire Tested: **HBLED-LD5-24SE-N-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730748
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-L735
Description: 24000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23920.0 lumens
Efficiency: N/A
Efficacy: 159.5 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

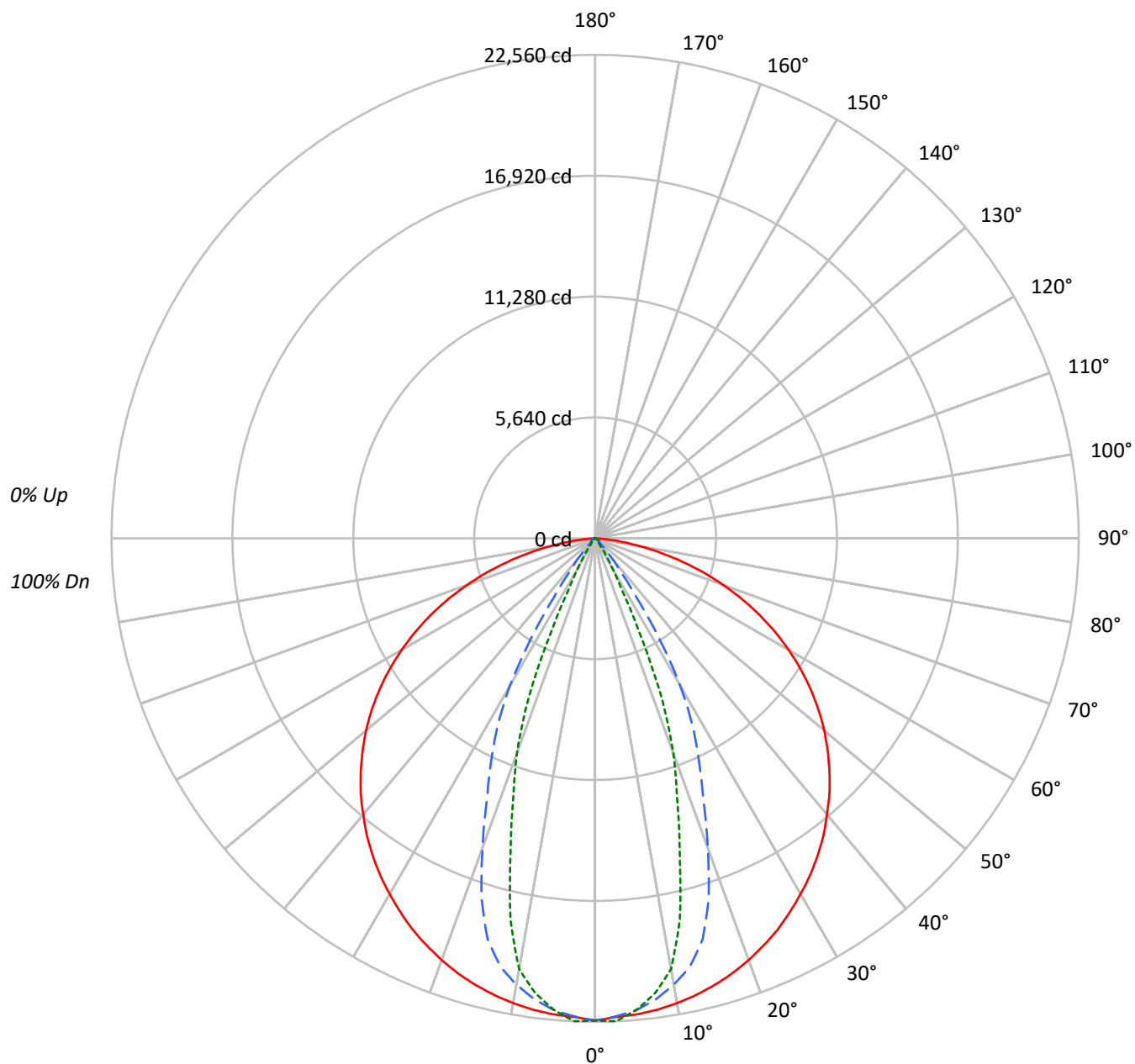
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	36336	36336	36336
5°	36142	35823	35807
10°	36119	34675	33458
15°	36068	32395	25463
20°	35984	26408	18329
25°	35893	20419	9029
30°	35734	14840	2928
35°	35650	6584	754
40°	35463	2674	508
45°	35304	751	540
50°	35030	533	600
55°	34525	633	256
60°	33673	705	156
65°	32288	450	184
70°	29996	399	228
75°	26240	301	314
80°	19620	368	448
85°	9718	476	595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2088.5	8.7
10°-20°	5222.3	21.8
20°-30°	5656.5	23.6
30°-40°	4188.9	17.5
40°-50°	3017.1	12.6
50°-60°	1868.2	7.8
60°-70°	1148.9	4.8
70°-80°	605.6	2.5
80°-90°	124.0	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°	12967.3	54.2
0°-40°	17156.2	71.7
0°-60°	22041.5	92.1
0°-90°	23920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23920.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22505	22505	22505	22505	22505	
5°	22300	22382	22102	22118	22093	###
15°	21578	21077	19380	16481	15234	6091
25°	20148	18455	11462	7210	5068	9283
35°	18087	12751	3340	786	382	11315
45°	15462	7184	329	238	237	11924
55°	12265	1480	225	203	91	10949
65°	8451	156	118	75	48	8338
75°	4206	36	48	63	50	4443
85°	525	14	26	39	32	793
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22505.0	22505.0	22505.0	22505.0	22505.0
2.5°	22360.5	22502.9	22334.8	22460.1	22559.6
5°	22299.5	22381.9	22102.5	22118.5	22092.9
7.5°	22192.4	22173.1	21703.2	21497.6	21407.7
10°	22030.8	21903.3	21149.7	20720.4	20407.7
12.5°	21822.0	21537.2	20459.2	19094.1	18246.2
15°	21577.9	21076.9	19380.0	16480.8	15233.5
17.5°	21286.7	20576.9	17615.6	13812.8	12699.5
20°	20943.0	20019.1	15369.5	11752.0	10667.5
22.5°	20559.7	19340.3	13187.7	9767.0	8220.0
25°	20147.6	18455.0	11461.8	7210.5	5068.2
27.5°	19671.2	17316.9	9843.1	4247.1	2586.6
30°	19166.9	15946.5	7959.9	2284.6	1570.6
32.5°	18658.4	14393.1	5632.4	1427.1	890.7
35°	18086.7	12750.8	3340.2	785.8	382.3
37.5°	17490.3	11245.6	1974.2	357.6	245.2
40°	16825.5	9869.9	1268.6	237.6	240.8
42.5°	16183.2	8587.3	714.1	234.4	238.8
45°	15461.5	7183.7	328.7	237.6	236.6
47.5°	14715.3	5728.7	213.0	239.8	239.8
50°	13945.7	4096.2	212.0	245.2	238.8
52.5°	13133.0	2555.6	220.6	244.1	195.9
55°	12264.8	1479.6	224.8	203.4	91.0
57.5°	11365.5	872.5	227.0	116.7	51.4
60°	10427.6	482.8	218.4	86.7	48.2
62.5°	9460.8	230.2	172.3	81.4	47.1
65°	8451.3	156.3	117.7	74.9	48.2
67.5°	7403.2	120.9	93.1	70.7	49.2
70°	6354.0	89.9	84.6	70.7	48.2
72.5°	5287.7	61.0	70.7	71.7	48.2
75°	4206.3	36.4	48.2	63.2	50.3
77.5°	3134.7	22.4	37.4	65.3	61.0
80°	2110.1	19.2	39.6	61.0	48.2
82.5°	1238.7	17.2	38.6	47.1	38.6
85°	524.6	14.0	25.7	38.6	32.1
87.5°	98.5	11.8	20.4	31.0	27.8
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)