

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: P730749

Luminaire Tested: **HBLED-LD5-24SE-N-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730749
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-L740
Description: 24000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24644.0 lumens
Efficiency: N/A
Efficacy: 164.3 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

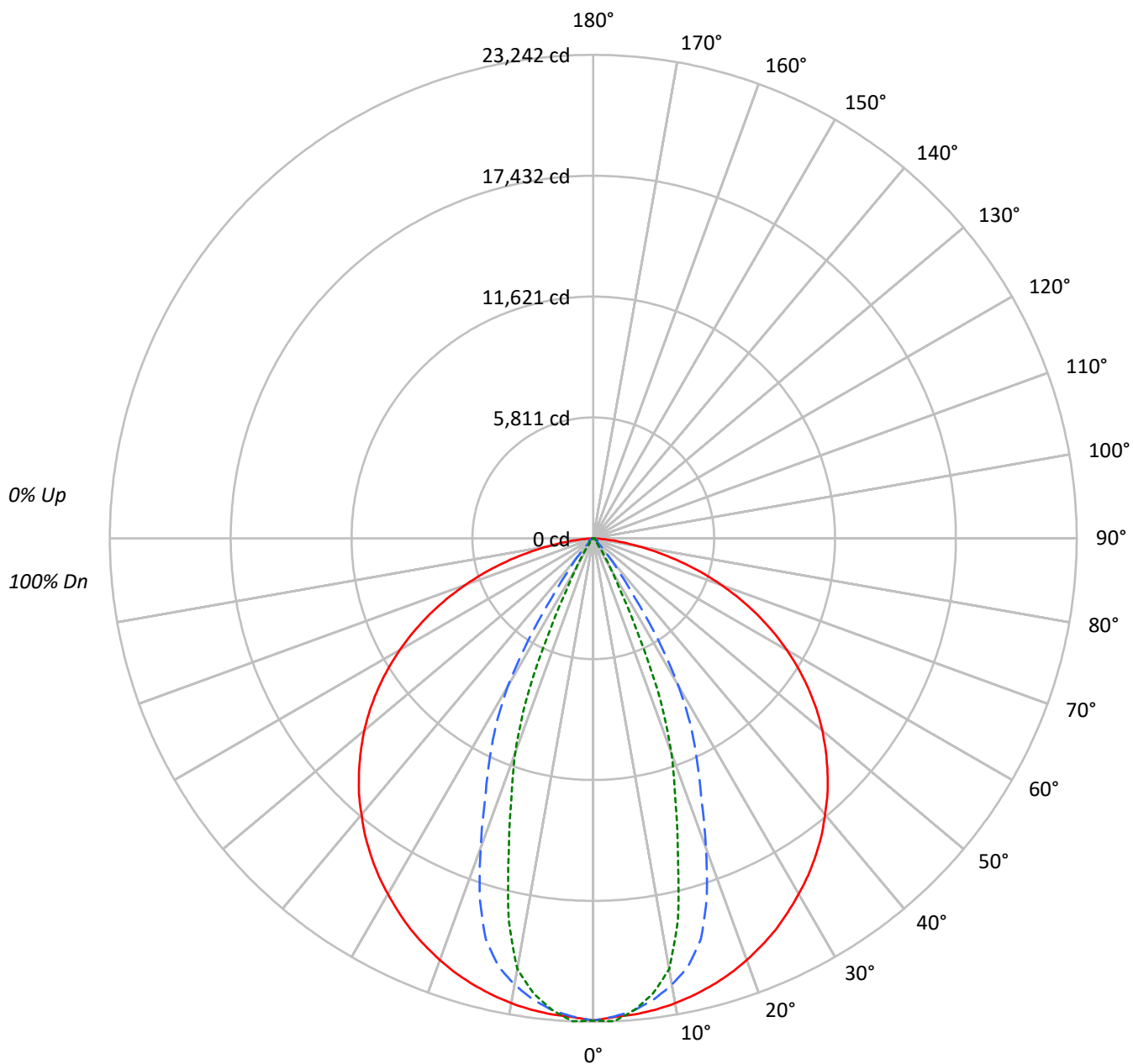
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	37436	37436	37436
5°	37236	36907	36891
10°	37213	35724	34471
15°	37160	33375	26234
20°	37074	27207	18884
25°	36979	21037	9302
30°	36816	15289	3017
35°	36729	6783	776
40°	36536	2755	523
45°	36373	773	557
50°	36090	549	618
55°	35570	652	264
60°	34692	727	160
65°	33265	463	190
70°	30903	412	235
75°	27034	310	323
80°	20214	379	462
85°	10013	489	611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2151.7	8.7
10°-20°	5380.4	21.8
20°-30°	5827.7	23.6
30°-40°	4315.7	17.5
40°-50°	3108.4	12.6
50°-60°	1924.7	7.8
60°-70°	1183.7	4.8
70°-80°	624.0	2.5
80°-90°	127.7	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°	13359.8	54.2
0°-40°	17675.5	71.7
0°-60°	22708.6	92.1
0°-90°	24644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24644.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23186	23186	23186	23186	23186	
5°	22974	23059	22772	22788	22762	###
15°	22231	21715	19966	16980	15695	6276
25°	20757	19014	11809	7429	5222	9564
35°	18634	13137	3441	810	394	11658
45°	15930	7401	339	245	244	12285
55°	12636	1524	232	210	94	11280
65°	8707	161	121	77	50	8591
75°	4334	38	50	65	52	4577
85°	540	14	26	40	33	817
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23186.2	23186.2	23186.2	23186.2	23186.2
2.5°	23037.3	23184.1	23010.9	23139.9	23242.5
5°	22974.4	23059.4	22771.5	22788.0	22761.6
7.5°	22864.1	22844.3	22360.1	22148.3	22055.7
10°	22697.6	22566.3	21789.8	21347.5	21025.4
12.5°	22482.5	22189.1	21078.4	19672.0	18798.5
15°	22231.0	21714.8	19966.5	16979.7	15694.6
17.5°	21931.0	21199.7	18148.8	14230.9	13083.9
20°	21576.9	20625.0	15834.7	12107.7	10990.4
22.5°	21182.0	19925.7	13586.8	10062.7	8468.8
25°	20757.4	19013.6	11808.7	7428.7	5221.6
27.5°	20266.6	17841.1	10141.0	4375.6	2664.9
30°	19747.1	16429.2	8200.8	2353.8	1618.1
32.5°	19223.1	14828.7	5802.9	1470.3	917.7
35°	18634.1	13136.7	3441.3	809.6	393.8
37.5°	18019.7	11586.0	2033.9	368.5	252.6
40°	17334.8	10168.6	1307.0	244.8	248.1
42.5°	16673.0	8847.2	735.7	241.5	246.0
45°	15929.5	7401.1	338.6	244.8	243.8
47.5°	15160.7	5902.1	219.5	247.1	247.1
50°	14367.8	4220.1	218.4	252.6	246.0
52.5°	13530.5	2632.9	227.2	251.5	201.9
55°	12636.0	1524.3	231.6	209.5	93.8
57.5°	11709.5	898.9	233.8	120.2	53.0
60°	10743.2	497.4	225.0	89.3	49.7
62.5°	9747.2	237.1	177.6	83.9	48.5
65°	8707.0	161.0	121.3	77.2	49.7
67.5°	7627.3	124.6	95.9	72.8	50.7
70°	6546.3	92.6	87.2	72.8	49.7
72.5°	5447.8	62.9	72.8	73.9	49.7
75°	4333.6	37.5	49.7	65.1	51.8
77.5°	3229.6	23.1	38.6	67.3	62.9
80°	2174.0	19.8	40.8	62.9	49.7
82.5°	1276.2	17.7	39.8	48.5	39.8
85°	540.5	14.4	26.4	39.8	33.0
87.5°	101.5	12.2	21.0	32.0	28.7
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)