

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: P730743

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-N-CLI-UNV-L740
Description: 24000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22802.0 lumens
Efficiency: N/A
Efficacy: 152.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

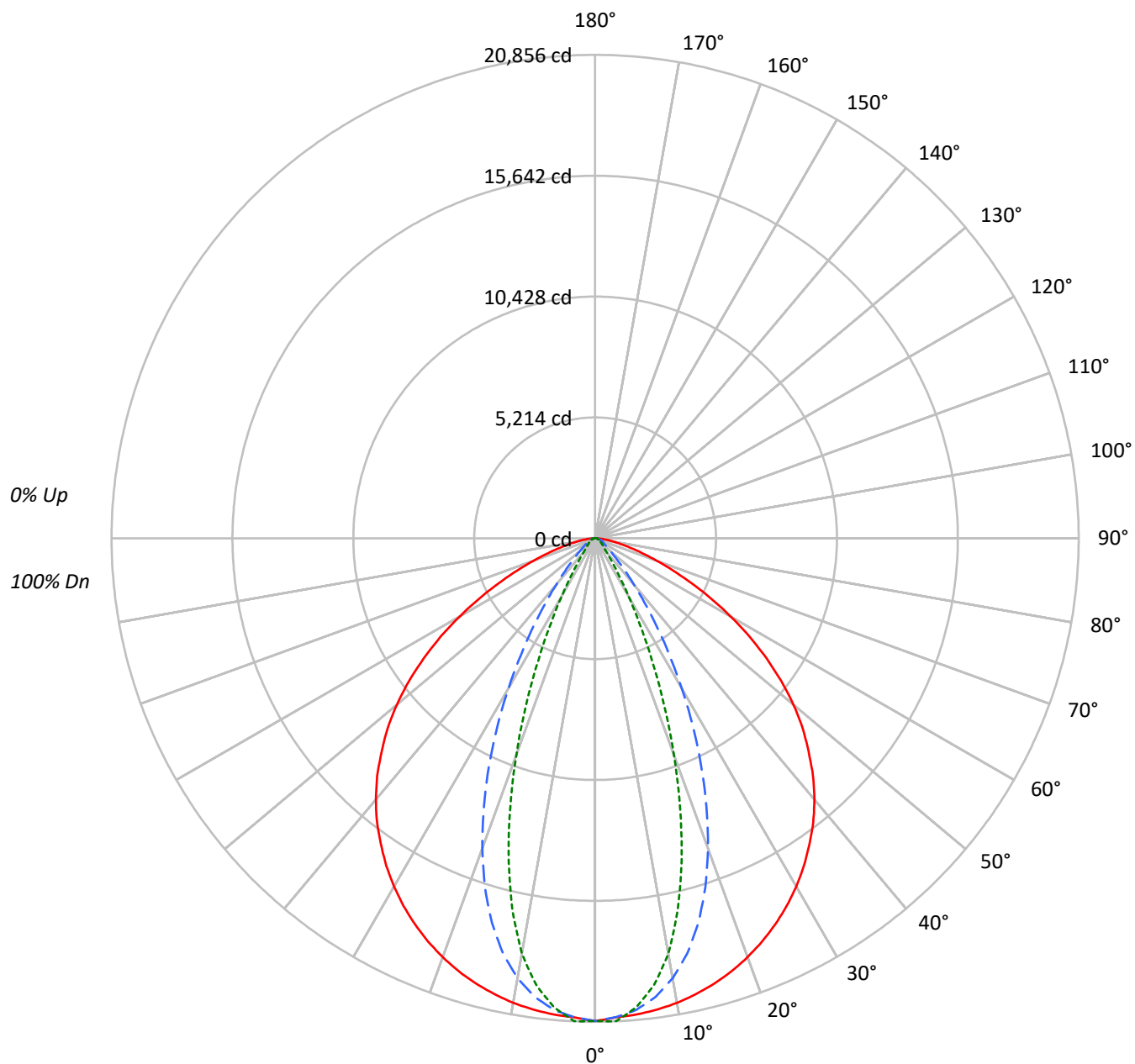
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	75		81
4	92	82	75	70	90	81	75	70	79	73	69		77	72	68		75
5	86	76	69	63	84	75	68	63	73	67	62		71	66	62		69
6	81	70	63	58	79	69	62	57	68	62	57		66	61	57		65
7	76	65	58	53	75	64	58	53	63	57	52		62	56	52		60
8	72	61	54	49	70	60	53	49	59	53	48		58	52	48		57
9	68	57	50	45	67	56	50	45	55	49	45		54	49	45		53
10	64	53	47	42	63	53	46	42	52	46	42		51	46	42		50

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33628	33628	33628
5°	33426	33094	32920
10°	33370	31595	29815
15°	33236	28720	24079
20°	33037	24438	17066
25°	32741	19270	10311
30°	32343	13908	5299
35°	31759	9092	2647
40°	31006	5461	1545
45°	29718	3262	1155
50°	28030	2133	970
55°	25368	1618	846
60°	21800	1378	772
65°	17535	1257	729
70°	13211	1347	725
75°	9717	1280	745
80°	7109	1275	816
85°	5324	1545	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1918.1	8.4
10°-20°	4771.9	20.9
20°-30°	5285.6	23.2
30°-40°	4234.7	18.6
40°-50°	3023.0	13.3
50°-60°	1941.7	8.5
60°-70°	1052.3	4.6
70°-80°	449.8	2.0
80°-90°	124.7	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°	11975.7	52.5
0°-40°	16210.4	71.1
0°-60°	21175.2	92.9
0°-90°	22802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20828	20828	20828	20828	20828	
5°	20624	20701	20419	20354	20311	###
15°	19883	19262	17182	15184	14405	5610
25°	18378	16205	10817	7047	5788	8467
35°	16113	11655	4613	1860	1343	10075
45°	13015	6728	1428	608	506	10032
55°	9012	3008	575	353	301	8031
65°	4590	1235	329	227	191	4596
75°	1558	452	205	143	120	1731
85°	287	120	83	69	57	351
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20827.9	20827.9	20827.9	20827.9	20827.9
2.5°	20690.8	20820.3	20680.9	20767.6	20856.4
5°	20623.9	20700.8	20418.7	20354.0	20311.3
7.5°	20507.6	20485.7	19955.9	19612.5	19446.8
10°	20354.0	20176.3	19271.3	18516.6	18185.3
12.5°	20134.6	19768.3	18344.3	17019.1	16457.5
15°	19883.4	19261.5	17181.5	15183.9	14405.0
17.5°	19582.8	18669.0	15791.5	13215.8	12187.9
20°	19227.4	17953.8	14222.9	11124.9	9932.4
22.5°	18830.3	17128.8	12543.3	9040.5	7761.4
25°	18378.3	16205.1	10816.6	7047.3	5787.9
27.5°	17890.2	15179.5	9099.8	5265.7	4117.1
30°	17348.2	14069.3	7459.7	3796.8	2842.4
32.5°	16756.9	12888.9	5936.0	2670.1	1943.9
35°	16113.0	11654.7	4612.9	1860.5	1342.7
37.5°	15453.7	10395.3	3484.1	1315.3	963.2
40°	14711.0	9140.3	2591.2	963.2	732.8
42.5°	13913.5	7909.5	1917.6	741.5	593.5
45°	13015.0	6728.0	1428.4	607.8	505.8
47.5°	12144.0	5626.6	1084.9	517.8	439.9
50°	11158.9	4632.8	849.1	452.0	386.1
52.5°	10113.4	3758.4	688.9	398.2	340.1
55°	9012.0	3008.0	574.8	353.2	300.6
57.5°	7896.3	2382.7	491.5	314.8	267.7
60°	6751.1	1905.5	426.7	281.9	239.1
62.5°	5633.2	1523.8	373.0	253.4	213.9
65°	4589.9	1235.2	329.1	227.1	190.9
67.5°	3625.6	976.4	307.2	204.0	172.3
70°	2798.4	760.2	285.3	182.1	153.6
72.5°	2120.5	583.7	252.4	162.4	136.1
75°	1557.7	452.0	205.2	142.6	119.5
77.5°	1114.6	347.8	166.7	123.9	103.2
80°	764.6	258.9	137.1	106.4	87.8
82.5°	497.0	183.2	110.8	87.8	72.4
85°	287.4	119.5	83.4	69.1	57.0
87.5°	123.9	65.8	57.0	51.6	43.8
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)