

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: P730745

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730745
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-L835
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: 21156.0 lumens
Efficiency: N/A
Efficacy: 141.0 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

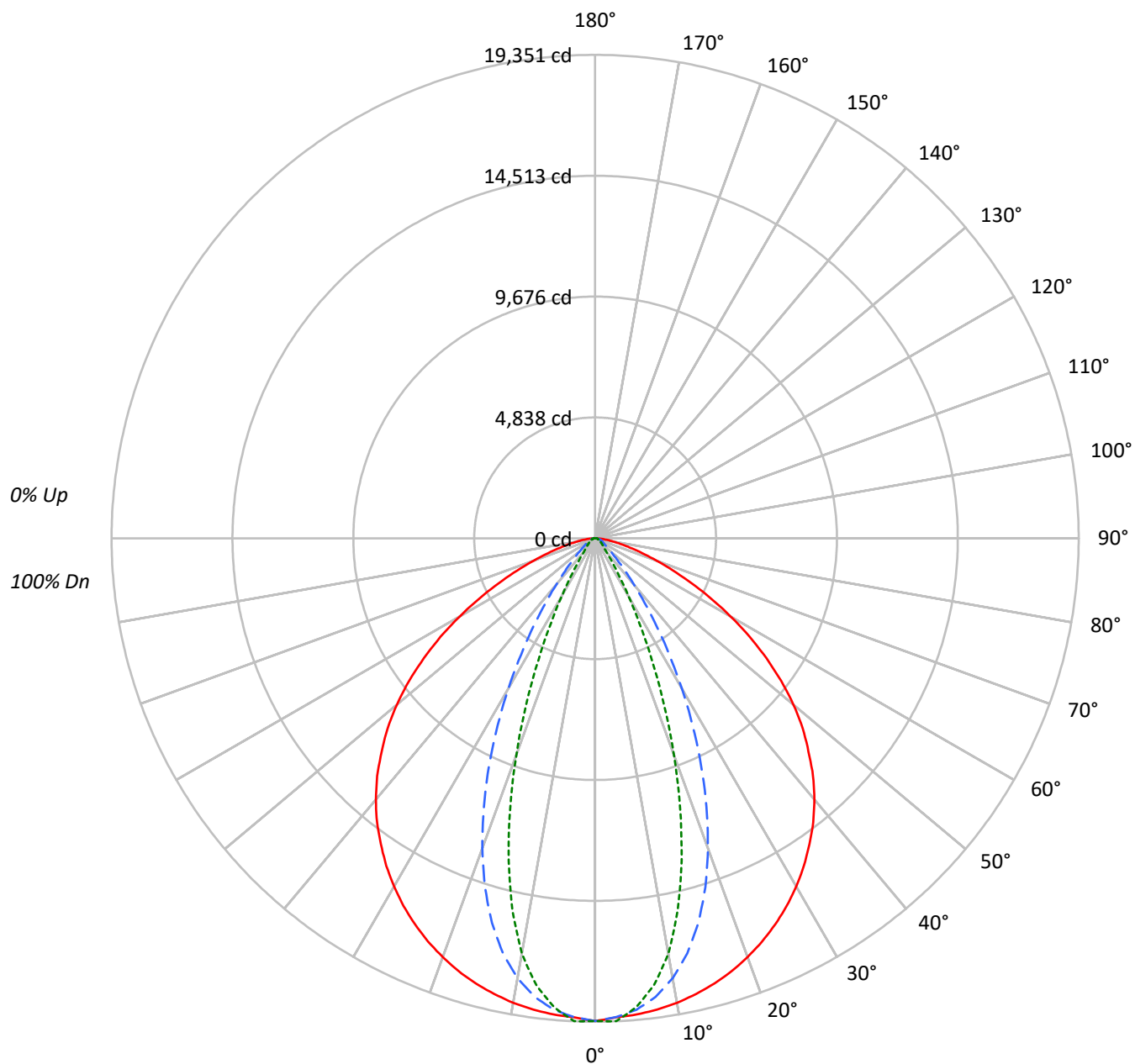
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31201	31201	31201
5°	31013	30705	30543
10°	30961	29314	27662
15°	30837	26646	22340
20°	30652	22674	15834
25°	30378	17879	9567
30°	30009	12904	4917
35°	29467	8436	2456
40°	28768	5067	1433
45°	27573	3026	1072
50°	26006	1979	900
55°	23537	1501	785
60°	20227	1278	716
65°	16270	1166	677
70°	12257	1250	673
75°	9016	1188	692
80°	6596	1183	758
85°	4941	1434	980



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1779.7	8.4
10°-20°	4427.5	20.9
20°-30°	4904.1	23.2
30°-40°	3929.0	18.6
40°-50°	2804.8	13.3
50°-60°	1801.6	8.5
60°-70°	976.3	4.6
70°-80°	417.3	2.0
80°-90°	115.7	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°	11111.2	52.5
0°-40°	15040.2	71.1
0°-60°	19646.6	92.9
0°-90°	21156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21156.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19324	19324	19324	19324	19324	
5°	19135	19206	18945	18885	18845	###
15°	18448	17871	15941	14088	13365	5205
25°	17052	15035	10036	6539	5370	7855
35°	14950	10813	4280	1726	1246	9347
45°	12076	6242	1325	564	469	9308
55°	8361	2791	533	328	279	7452
65°	4259	1146	305	211	177	4265
75°	1445	419	190	132	111	1606
85°	267	111	77	64	53	326
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19324.4	19324.4	19324.4	19324.4	19324.4
2.5°	19197.2	19317.4	19188.0	19268.4	19350.9
5°	19135.1	19206.5	18944.8	18884.7	18845.1
7.5°	19027.2	19006.9	18515.3	18196.7	18043.0
10°	18884.7	18719.8	17880.1	17179.9	16872.5
12.5°	18681.2	18341.3	17020.1	15790.6	15269.5
15°	18448.1	17871.0	15941.2	14087.8	13365.1
17.5°	18169.2	17321.4	14651.6	12261.8	11308.1
20°	17839.4	16657.8	13196.2	10321.8	9215.4
22.5°	17471.0	15892.4	11637.8	8387.9	7201.2
25°	17051.7	15035.3	10035.8	6538.6	5370.0
27.5°	16598.8	14083.7	8442.9	4885.6	3819.9
30°	16095.9	13053.7	6921.2	3522.8	2637.2
32.5°	15547.3	11958.5	5507.5	2477.4	1803.6
35°	14949.9	10813.4	4279.9	1726.2	1245.8
37.5°	14338.1	9644.9	3232.6	1220.3	893.7
40°	13649.0	8480.5	2404.1	893.7	679.9
42.5°	12909.1	7338.5	1779.2	688.0	550.6
45°	12075.5	6242.3	1325.2	563.9	469.3
47.5°	11267.4	5220.5	1006.6	480.4	408.1
50°	10353.4	4298.3	787.8	419.4	358.2
52.5°	9383.4	3487.1	639.2	369.5	315.5
55°	8361.4	2790.9	533.3	327.7	278.9
57.5°	7326.3	2210.7	456.0	292.1	248.4
60°	6263.7	1768.0	395.9	261.6	221.8
62.5°	5226.6	1413.8	346.0	235.1	198.5
65°	4258.6	1146.0	305.3	210.7	177.1
67.5°	3363.9	905.9	285.0	189.3	159.8
70°	2596.4	705.3	264.7	168.9	142.5
72.5°	1967.4	541.5	234.2	150.6	126.2
75°	1445.3	419.4	190.4	132.3	110.9
77.5°	1034.1	322.7	154.7	115.0	95.7
80°	709.4	240.3	127.2	98.7	81.5
82.5°	461.1	170.0	102.8	81.5	67.1
85°	266.7	110.9	77.4	64.1	52.9
87.5°	115.0	61.0	52.9	47.9	40.7
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)