

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: P730315

Luminaire Tested: **HBLED-LD5-12SE-N-CLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730315
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-LD5-12SE-N-CLI-UNV-L850
Description: 12000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11096.0 lumens
Efficiency: N/A
Efficacy: 147.9 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

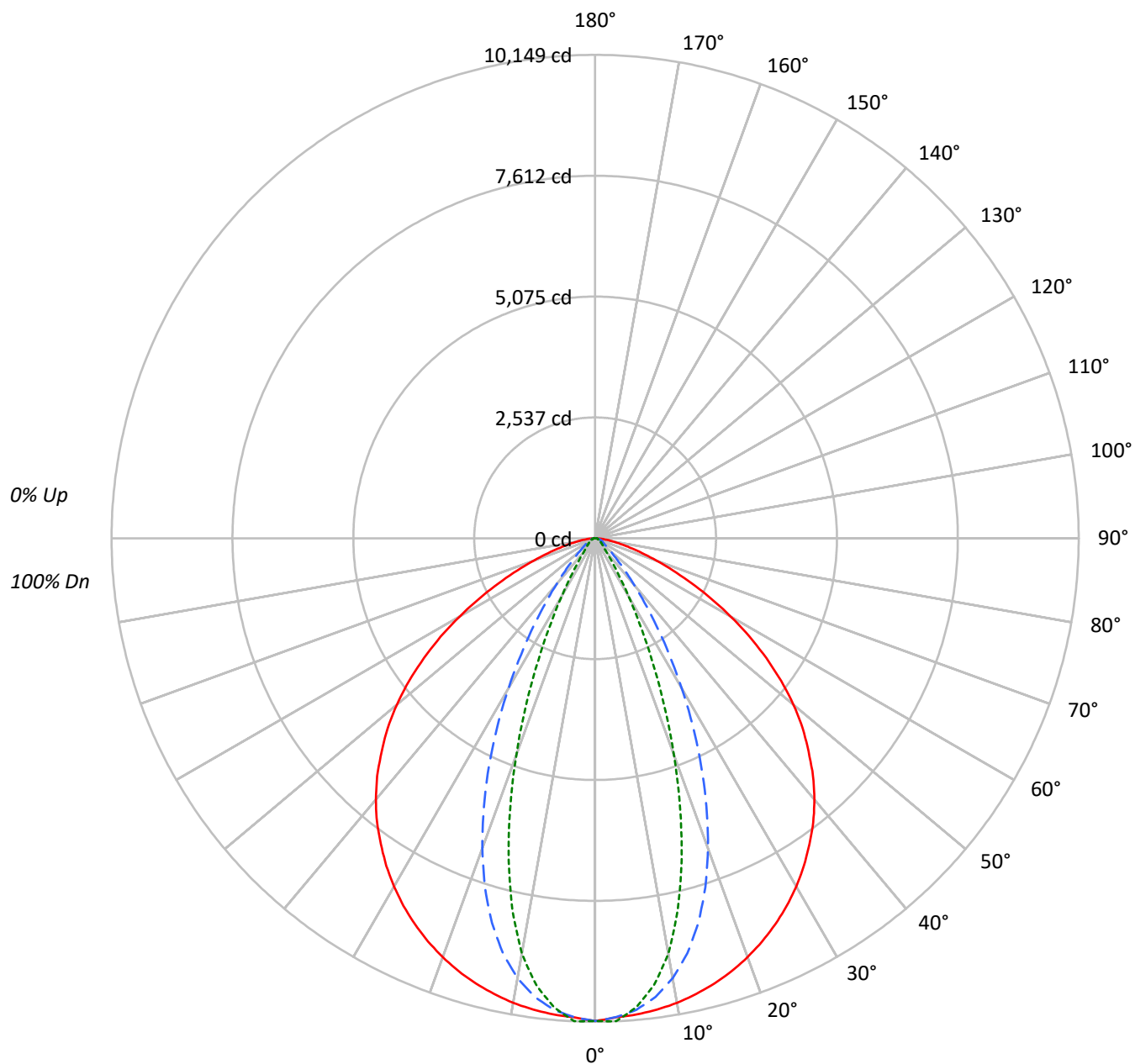
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16364	16364	16364
5°	16266	16104	16020
10°	16239	15375	14509
15°	16174	13976	11717
20°	16076	11892	8305
25°	15932	9377	5018
30°	15739	6768	2579
35°	15455	4424	1288
40°	15088	2658	752
45°	14462	1587	562
50°	13640	1038	472
55°	12345	787	412
60°	10608	671	376
65°	8533	612	355
70°	6429	655	353
75°	4729	623	363
80°	3460	620	397
85°	2592	752	513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	933.4	8.4
10°-20°	2322.1	20.9
20°-30°	2572.1	23.2
30°-40°	2060.7	18.6
40°-50°	1471.1	13.3
50°-60°	944.9	8.5
60°-70°	512.1	4.6
70°-80°	218.9	2.0
80°-90°	60.7	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°	5827.7	52.5
0°-40°	7888.4	71.1
0°-60°	10304.4	92.9
0°-90°	11096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10135	10135	10135	10135	10135	
5°	10036	10074	9936	9905	9884	954
15°	9676	9373	8361	7389	7010	2730
25°	8943	7886	5264	3429	2816	4120
35°	7841	5672	2245	905	653	4903
45°	6333	3274	695	296	246	4882
55°	4385	1464	280	172	146	3908
65°	2234	601	160	110	93	2237
75°	758	220	100	69	58	842
85°	140	58	41	34	28	171
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10135.4	10135.4	10135.4	10135.4	10135.4
2.5°	10068.7	10131.7	10063.8	10106.0	10149.2
5°	10036.1	10073.5	9936.3	9904.7	9884.0
7.5°	9979.5	9968.8	9711.0	9543.9	9463.3
10°	9904.7	9818.3	9377.9	9010.6	8849.4
12.5°	9798.0	9619.7	8926.8	8281.9	8008.6
15°	9675.8	9373.1	8360.9	7388.8	7009.8
17.5°	9529.5	9084.8	7684.5	6431.1	5930.9
20°	9356.5	8736.7	6921.2	5413.6	4833.3
22.5°	9163.3	8335.3	6103.9	4399.3	3776.9
25°	8943.3	7885.8	5263.6	3429.4	2816.5
27.5°	8705.8	7386.7	4428.2	2562.4	2003.5
30°	8442.1	6846.4	3630.1	1847.6	1383.2
32.5°	8154.3	6272.0	2888.6	1299.3	946.0
35°	7841.0	5671.5	2244.7	905.4	653.4
37.5°	7520.1	5058.6	1695.5	640.0	468.7
40°	7158.7	4447.9	1260.9	468.7	356.6
42.5°	6770.6	3849.0	933.2	360.8	288.8
45°	6333.4	3274.0	695.1	295.8	246.1
47.5°	5909.6	2738.1	528.0	252.0	214.1
50°	5430.2	2254.4	413.2	220.0	187.9
52.5°	4921.4	1828.9	335.2	193.8	165.5
55°	4385.4	1463.8	279.7	171.9	146.3
57.5°	3842.6	1159.5	239.2	153.2	130.3
60°	3285.2	927.3	207.7	137.2	116.4
62.5°	2741.3	741.5	181.5	123.3	104.1
65°	2233.6	601.1	160.2	110.5	92.9
67.5°	1764.3	475.1	149.5	99.3	83.8
70°	1361.8	369.9	138.8	88.6	74.7
72.5°	1031.9	284.0	122.8	79.0	66.2
75°	758.0	220.0	99.8	69.4	58.2
77.5°	542.4	169.2	81.1	60.3	50.2
80°	372.1	126.0	66.7	51.8	42.7
82.5°	241.9	89.2	53.9	42.7	35.2
85°	139.9	58.2	40.6	33.6	27.7
87.5°	60.3	32.0	27.7	25.1	21.3
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)