

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: P730314

Luminaire Tested: **HBLED-LD5-12SE-N-CLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730314
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-L840
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: 10883.0 lumens
Efficiency: N/A
Efficacy: 145.1 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

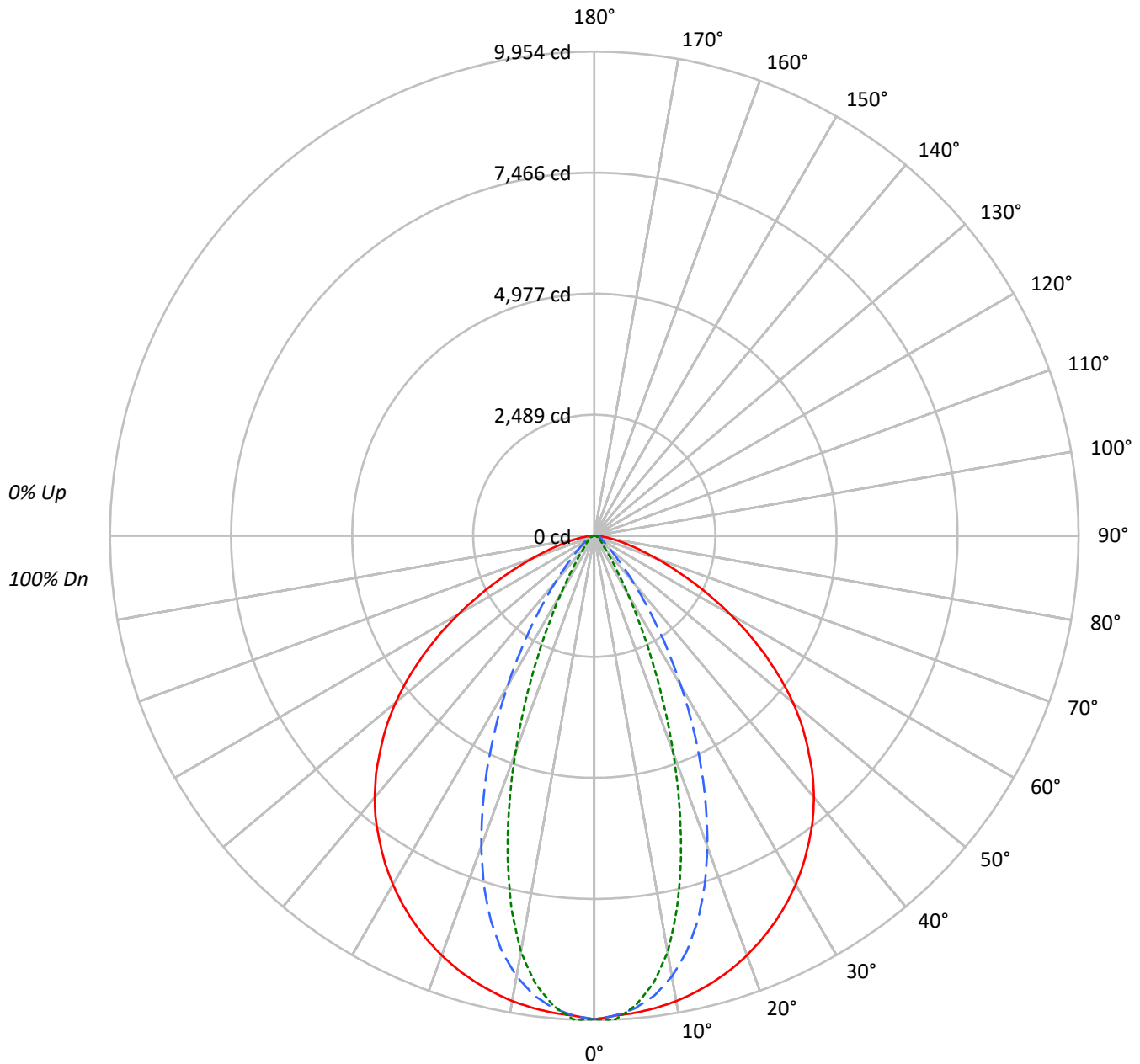
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	16050	16050	16050
5°	15954	15795	15712
10°	15927	15080	14230
15°	15863	13707	11492
20°	15768	11664	8145
25°	15627	9197	4921
30°	15437	6638	2529
35°	15158	4340	1263
40°	14799	2607	737
45°	14184	1557	551
50°	13378	1018	463
55°	12108	772	404
60°	10405	658	368
65°	8369	600	348
70°	6305	642	346
75°	4638	611	356
80°	3393	608	390
85°	2542	737	504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	915.5	8.4
10°-20°	2277.6	20.9
20°-30°	2522.7	23.2
30°-40°	2021.2	18.6
40°-50°	1442.8	13.3
50°-60°	926.8	8.5
60°-70°	502.2	4.6
70°-80°	214.7	2.0
80°-90°	59.5	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°	5715.8	52.5
0°-40°	7736.9	71.1
0°-60°	10106.5	92.9
0°-90°	10883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10883.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9941	9941	9941	9941	9941	
5°	9843	9880	9746	9715	9694	936
15°	9490	9193	8200	7247	6875	2678
25°	8772	7734	5163	3364	2762	4041
35°	7690	5563	2202	888	641	4808
45°	6212	3211	682	290	241	4788
55°	4301	1436	274	169	144	3833
65°	2191	590	157	108	91	2194
75°	744	216	98	68	57	826
85°	137	57	40	33	27	168
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9940.8	9940.8	9940.8	9940.8	9940.8
2.5°	9875.4	9937.2	9870.6	9912.0	9954.4
5°	9843.4	9880.1	9745.5	9714.6	9694.2
7.5°	9787.9	9777.5	9524.6	9360.7	9281.6
10°	9714.6	9629.8	9197.8	8837.6	8679.5
12.5°	9609.9	9435.1	8755.4	8122.9	7854.9
15°	9490.0	9193.2	8200.4	7247.0	6875.2
17.5°	9346.5	8910.4	7537.0	6307.7	5817.1
20°	9176.9	8569.0	6788.3	5309.7	4740.5
22.5°	8987.4	8175.3	5986.7	4314.9	3704.4
25°	8771.7	7734.4	5162.6	3363.5	2762.4
27.5°	8538.7	7244.9	4343.2	2513.2	1965.0
30°	8280.0	6715.0	3560.4	1812.2	1356.6
32.5°	7997.8	6151.6	2833.2	1274.4	927.8
35°	7690.5	5562.6	2201.7	888.0	640.9
37.5°	7375.8	4961.5	1662.9	627.8	459.7
40°	7021.3	4362.5	1236.7	459.7	349.7
42.5°	6640.7	3775.1	915.3	353.9	283.3
45°	6211.8	3211.1	681.7	290.1	241.4
47.5°	5796.1	2685.5	517.8	247.1	209.9
50°	5325.9	2211.1	405.2	215.7	184.3
52.5°	4827.0	1793.8	328.8	190.1	162.3
55°	4301.3	1435.7	274.3	168.6	143.5
57.5°	3768.8	1137.2	234.6	150.2	127.8
60°	3222.2	909.5	203.7	134.6	114.1
62.5°	2688.6	727.3	178.0	120.9	102.1
65°	2190.7	589.5	157.1	108.4	91.1
67.5°	1730.4	466.0	146.6	97.4	82.2
70°	1335.6	362.8	136.1	86.9	73.3
72.5°	1012.1	278.6	120.5	77.5	64.9
75°	743.5	215.7	97.9	68.1	57.1
77.5°	532.0	166.0	79.6	59.2	49.2
80°	364.9	123.6	65.4	50.8	41.9
82.5°	237.2	87.5	52.9	41.9	34.5
85°	137.2	57.1	39.8	33.0	27.2
87.5°	59.2	31.4	27.2	24.6	20.9
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)