

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: P730302

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-N-CL-UNV-L840
Description: 12000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11017.0 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

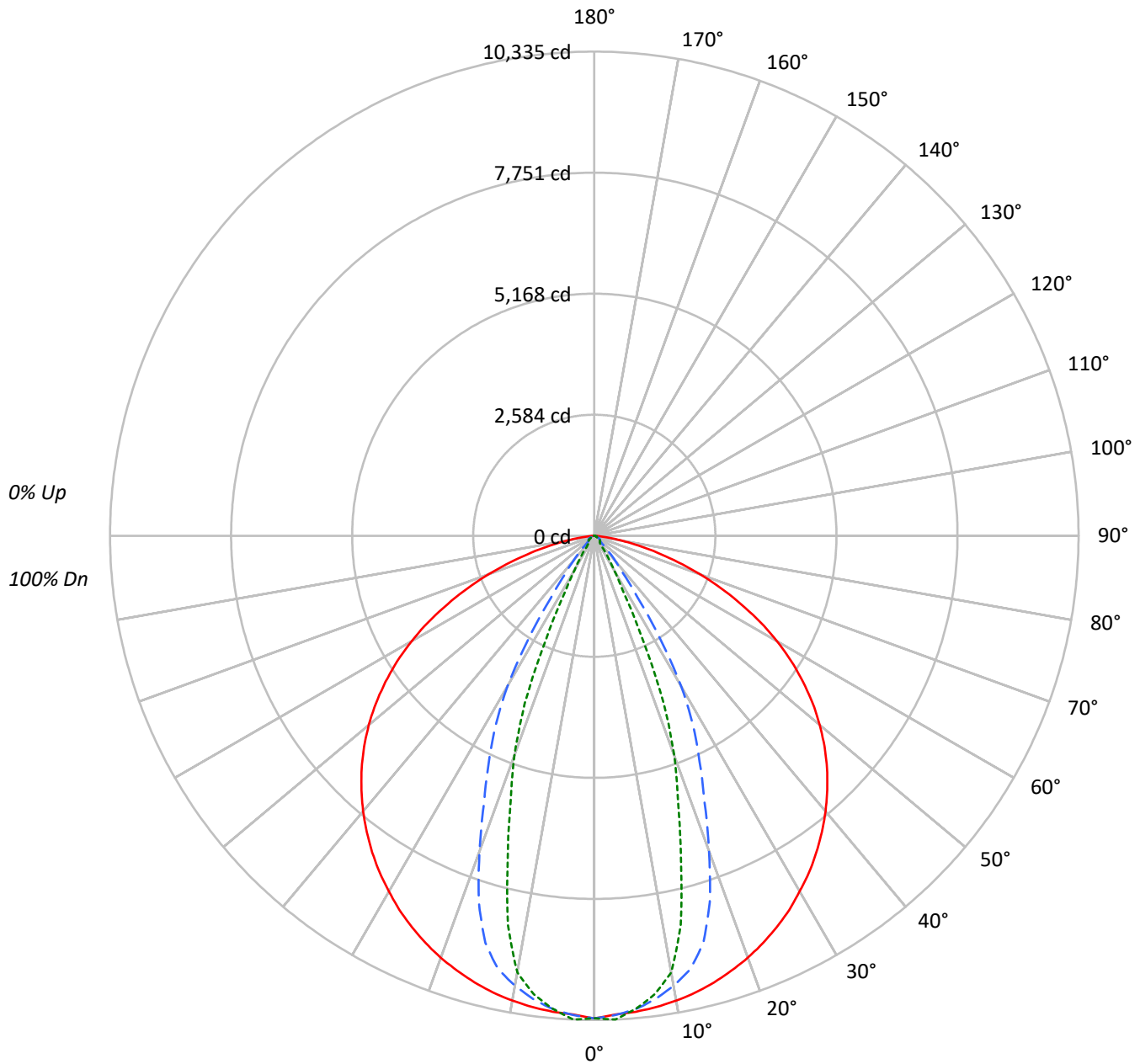
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	103	109	106	104	101	102	100	98		98	97	95		95
2	105	99	94	90	102	97	92	89	94	90	87		91	87	85		88
3	98	90	84	79	96	89	83	79	86	81	77		83	79	76		81
4	92	83	76	71	90	82	75	71	79	74	70		77	73	69		75
5	86	76	69	64	85	75	69	64	73	68	63		72	67	63		70
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65
7	77	66	59	54	75	65	58	54	64	58	53		62	57	53		61
8	72	61	55	50	71	61	54	50	60	54	49		59	53	49		58
9	69	58	51	46	67	57	51	46	56	50	46		55	50	46		54
10	65	54	48	43	64	54	47	43	53	47	43		52	47	43		51

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16632	16632	16632
5°	16530	16444	16432
10°	16519	15989	15517
15°	16500	15036	11931
20°	16468	12304	8558
25°	16416	9480	4349
30°	16339	6919	1582
35°	16280	3177	551
40°	16180	1442	380
45°	16036	538	385
50°	15780	391	405
55°	15313	411	309
60°	14552	439	272
65°	13197	334	222
70°	11315	241	204
75°	8649	214	194
80°	5411	201	211
85°	1710	235	283



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	959.0	8.7
10°-20°	2415.9	21.9
20°-30°	2631.0	23.9
30°-40°	1968.1	17.9
40°-50°	1415.1	12.8
50°-60°	869.1	7.9
60°-70°	500.1	4.5
70°-80°	223.2	2.0
80°-90°	35.4	0.3
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°	6005.9	54.5
0°-40°	7974.1	72.4
0°-60°	10258.3	93.1
0°-90°	11017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11017.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10301	10301	10301	10301	10301	
5°	10199	10247	10146	10155	10138	970
15°	9871	9682	8995	7725	7138	2786
25°	9215	8554	5321	3414	2441	4248
35°	8260	5924	1612	474	279	5167
45°	7023	3328	236	174	169	5410
55°	5440	692	146	141	110	4850
65°	3454	76	88	73	58	3419
75°	1386	46	34	35	31	1504
85°	92	9	13	16	15	184
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10301.2	10301.2	10301.2	10301.2	10301.2
2.5°	10229.5	10296.4	10240.0	10290.6	10335.4
5°	10198.9	10246.9	10145.7	10155.1	10138.3
7.5°	10146.2	10157.8	9974.9	9904.3	9870.0
10°	10075.6	10044.5	9752.4	9584.3	9464.6
12.5°	9986.5	9883.7	9475.7	8875.3	8517.4
15°	9871.0	9681.8	8995.0	7725.1	7137.9
17.5°	9733.5	9470.9	8199.0	6438.3	5930.2
20°	9584.3	9238.0	7161.0	5474.3	4980.8
22.5°	9408.2	8940.1	6137.4	4552.8	3875.5
25°	9214.8	8553.8	5321.4	3414.2	2441.2
27.5°	9006.0	8044.0	4566.0	2093.7	1319.9
30°	8763.6	7423.6	3711.0	1175.0	848.7
32.5°	8526.9	6700.4	2651.0	782.8	542.4
35°	8259.6	5923.9	1612.0	473.9	279.4
37.5°	7976.5	5218.0	1008.9	257.8	192.9
40°	7676.6	4548.6	684.2	182.9	180.3
42.5°	7356.1	3942.9	428.5	173.9	179.7
45°	7023.0	3328.3	235.6	174.5	168.7
47.5°	6661.4	2661.0	164.5	165.0	164.5
50°	6282.4	1908.7	155.5	162.9	161.3
52.5°	5873.8	1185.0	156.0	159.2	142.9
55°	5440.0	691.6	146.0	141.3	109.7
57.5°	4984.0	431.2	142.9	116.5	98.6
60°	4506.4	227.7	136.0	104.9	84.3
62.5°	3997.7	112.3	109.1	89.6	69.1
65°	3454.3	75.9	87.5	72.7	58.0
67.5°	2929.3	68.5	65.9	59.6	50.6
70°	2396.9	62.7	51.1	52.2	43.2
72.5°	1874.5	56.9	41.1	44.8	36.4
75°	1386.4	45.9	34.3	35.3	31.1
77.5°	964.6	35.9	26.9	30.1	29.0
80°	582.0	22.7	21.6	24.8	22.7
82.5°	282.0	14.7	16.9	19.5	17.9
85°	92.3	9.0	12.7	16.3	15.3
87.5°	11.6	5.3	10.5	14.2	13.2
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)