

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: P730332

Luminaire Tested: **HBLED-LD5-12SE-W-AI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-AI-UNV-L840
Description: 12000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10773.0 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

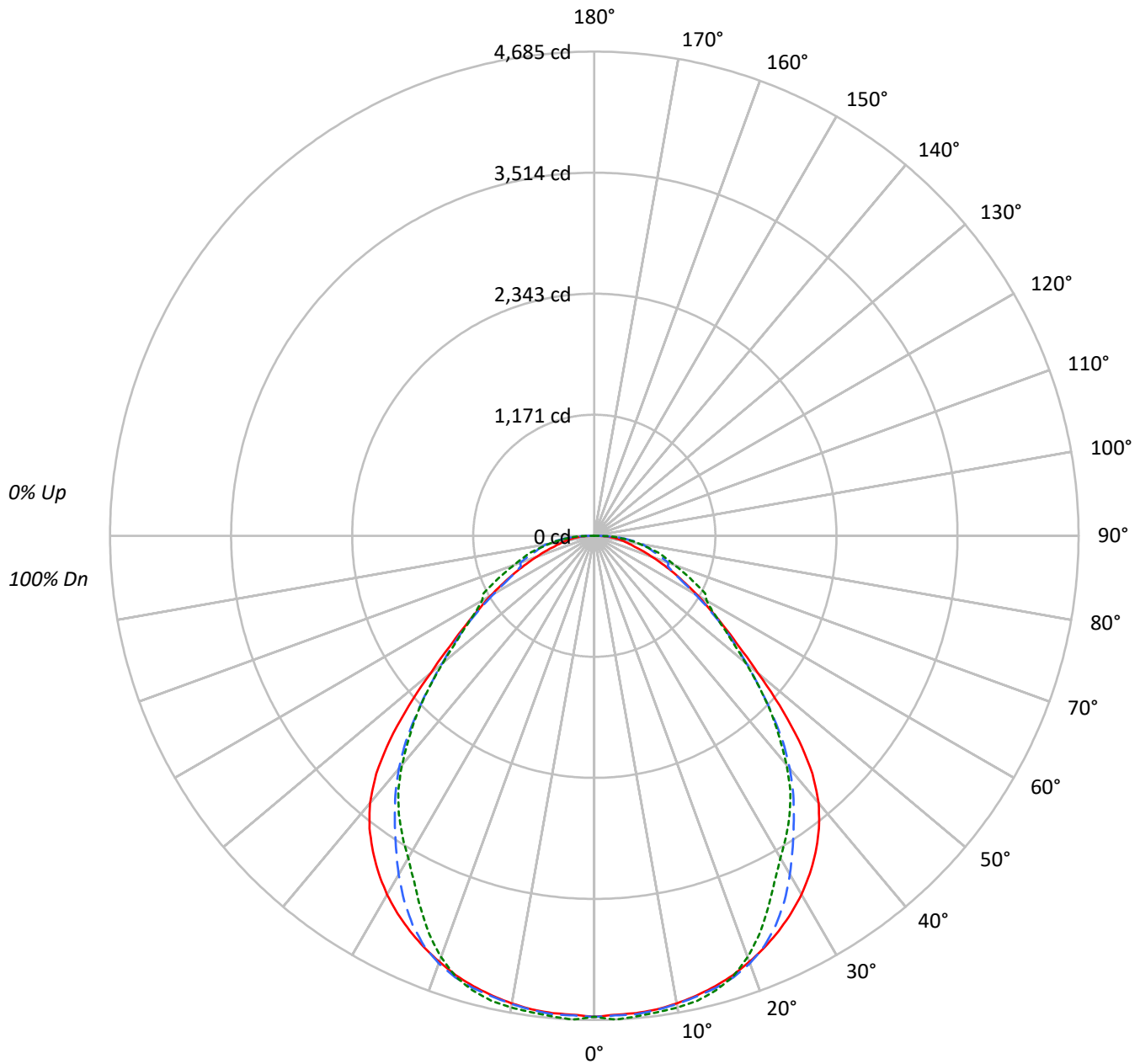
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7515	7515	7515
5°	7514	7531	7567
10°	7533	7542	7598
15°	7545	7573	7610
20°	7537	7565	7453
25°	7518	7405	7083
30°	7474	7056	6712
35°	7361	6632	6494
40°	7115	6201	6098
45°	6395	5537	5516
50°	5187	4823	4790
55°	4307	4227	4225
60°	3729	3620	4047
65°	3232	3211	4079
70°	2787	3602	3888
75°	2499	3692	4054
80°	2597	4347	4067
85°	2947	5009	4648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.1	4.1
10°-20°	1279.8	11.9
20°-30°	1900.8	17.6
30°-40°	2158.0	20.0
40°-50°	1929.1	17.9
50°-60°	1333.8	12.4
60°-70°	880.1	8.2
70°-80°	593.8	5.5
80°-90°	254.3	2.4
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°	3623.8	33.6
0°-40°	5781.8	53.7
0°-60°	9044.8	84.0
0°-90°	10773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4654	4654	4654	4654	4654	
5°	4636	4665	4646	4665	4669	441
15°	4514	4535	4530	4556	4552	1274
25°	4220	4260	4157	4033	3976	1944
35°	3735	3656	3365	3316	3294	2329
45°	2801	2564	2425	2443	2416	2130
55°	1530	1397	1502	1480	1501	1390
65°	846	751	841	983	1068	844
75°	401	504	592	632	650	437
85°	159	221	270	272	251	166
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4654.3	4654.3	4654.3	4654.3	4654.3
2.5°	4638.5	4667.5	4645.8	4665.9	4685.3
5°	4636.3	4664.8	4646.3	4665.3	4669.0
7.5°	4623.2	4649.5	4627.9	4646.3	4650.6
10°	4594.7	4625.8	4600.5	4629.0	4634.2
12.5°	4557.8	4589.5	4567.3	4606.3	4608.4
15°	4513.5	4535.2	4530.4	4555.7	4552.5
17.5°	4457.7	4482.5	4478.8	4485.1	4470.3
20°	4386.5	4414.4	4402.9	4373.9	4337.5
22.5°	4310.1	4343.8	4298.0	4224.7	4173.6
25°	4220.0	4260.0	4156.8	4032.9	3976.0
27.5°	4120.4	4156.2	3984.4	3832.6	3773.6
30°	4008.7	4023.9	3784.6	3640.2	3600.2
32.5°	3879.5	3857.4	3571.2	3475.8	3452.6
35°	3734.6	3656.0	3364.6	3315.6	3294.5
37.5°	3571.2	3427.3	3160.7	3138.0	3115.8
40°	3375.7	3163.3	2941.9	2927.2	2893.4
42.5°	3123.2	2876.0	2698.9	2681.6	2651.5
45°	2800.7	2563.5	2424.9	2443.3	2415.9
47.5°	2429.6	2249.9	2161.9	2212.5	2161.9
50°	2064.9	1944.3	1920.0	1965.9	1906.8
52.5°	1766.1	1657.5	1707.6	1715.5	1680.2
55°	1530.0	1396.7	1501.5	1480.4	1501.0
57.5°	1324.5	1175.3	1304.4	1280.2	1350.8
60°	1154.7	987.2	1121.0	1115.7	1253.3
62.5°	988.2	854.3	961.8	1039.3	1208.5
65°	845.9	751.0	840.6	982.9	1067.8
67.5°	709.4	673.5	768.9	848.0	940.8
70°	590.3	608.7	763.1	748.4	823.7
72.5°	490.1	552.9	673.5	676.2	729.4
75°	400.6	503.9	591.9	632.5	649.8
77.5°	333.1	456.9	534.4	548.7	531.8
80°	279.3	402.6	467.5	461.2	437.4
82.5°	225.5	305.2	368.4	374.2	346.3
85°	159.1	221.4	270.4	272.0	250.9
87.5°	85.4	136.5	163.9	168.7	156.0
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)