

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: P730354

Luminaire Tested: **HBLED-LD5-12SE-W-FLI-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-FLI-UNV-L750
Description: 12000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11636.0 lumens
Efficiency: N/A
Efficacy: 155.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

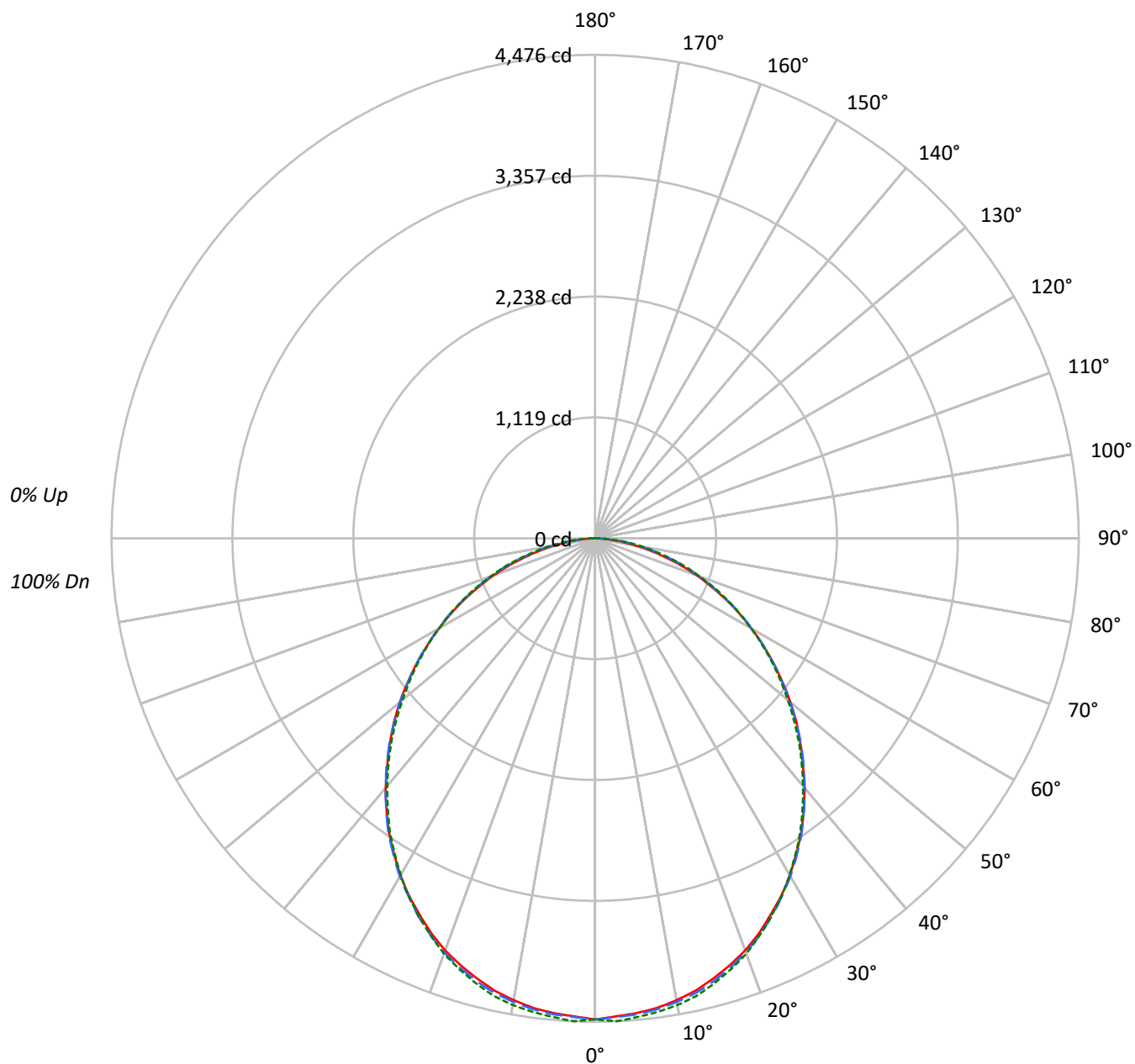
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7192	7192	7192
5°	7151	7172	7213
10°	7119	7148	7194
15°	7056	7095	7129
20°	6976	7010	7030
25°	6847	6886	6876
30°	6721	6739	6712
35°	6555	6571	6529
40°	6358	6358	6309
45°	6135	6152	6089
50°	5924	5914	5841
55°	5668	5669	5618
60°	5394	5400	5379
65°	5083	5134	5147
70°	4695	4824	4829
75°	4149	4418	4487
80°	3403	3869	4088
85°	2362	3249	3674



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.3	3.6
10°-20°	1198.5	10.3
20°-30°	1781.0	15.3
30°-40°	2082.5	17.9
40°-50°	2076.3	17.8
50°-60°	1801.5	15.5
60°-70°	1330.6	11.4
70°-80°	745.0	6.4
80°-90°	198.8	1.7
90°-100°	0.6	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°	3400.8	29.2
0°-40°	5483.3	47.1
0°-60°	9361.1	80.4
0°-90°	11635.4	100.0
90°-120°	0.6	0.0
90°-150°	0.6	0.0
90°-180°	1.0	0.0
0°-180°	11636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4455	4455	4455	4455	4455	
5°	4412	4440	4425	4444	4450	419
15°	4222	4251	4244	4265	4265	1191
25°	3844	3874	3865	3874	3860	1772
35°	3325	3355	3334	3333	3313	2077
45°	2687	2716	2694	2683	2667	2074
55°	2014	2027	2014	2010	1996	1801
65°	1331	1344	1344	1351	1347	1316
75°	665	685	708	713	719	708
85°	128	154	175	191	198	155
90°	0	3	3	8	7	5
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4454.6	4454.6	4454.6	4454.6	4454.6
2.5°	4430.2	4456.6	4438.2	4455.7	4476.2
5°	4412.4	4440.2	4424.8	4444.4	4450.1
7.5°	4386.3	4413.3	4398.5	4418.1	4424.0
10°	4342.1	4371.3	4359.7	4381.8	4388.0
12.5°	4290.6	4318.0	4310.4	4336.2	4340.4
15°	4221.5	4250.9	4244.4	4264.8	4265.1
17.5°	4145.0	4172.7	4167.9	4183.8	4183.2
20°	4060.3	4090.0	4079.8	4097.1	4091.7
22.5°	3960.0	3991.7	3978.9	3993.4	3979.8
25°	3843.6	3874.5	3865.4	3873.9	3859.7
27.5°	3730.8	3759.1	3740.4	3750.6	3735.6
30°	3605.0	3629.1	3614.7	3618.1	3599.9
32.5°	3463.7	3492.3	3474.7	3474.2	3454.9
35°	3325.4	3354.6	3334.0	3333.4	3312.7
37.5°	3172.5	3199.6	3175.3	3176.7	3152.6
40°	3016.4	3039.9	3016.4	3015.2	2993.2
42.5°	2847.0	2878.1	2856.6	2859.1	2829.7
45°	2686.9	2715.5	2694.3	2683.2	2666.8
47.5°	2527.5	2539.9	2522.3	2519.5	2496.3
50°	2358.6	2367.9	2354.6	2351.2	2325.2
52.5°	2184.1	2200.3	2183.2	2178.7	2161.5
55°	2013.6	2027.4	2013.8	2010.4	1995.7
57.5°	1841.9	1860.0	1846.2	1842.7	1830.9
60°	1670.3	1675.6	1672.2	1677.3	1665.7
62.5°	1499.7	1512.1	1516.1	1514.7	1505.6
65°	1330.6	1343.6	1343.9	1350.7	1347.3
67.5°	1157.5	1174.5	1179.3	1186.4	1189.5
70°	994.6	1007.6	1021.8	1026.0	1022.9
72.5°	830.6	851.5	867.4	871.1	884.4
75°	665.1	685.0	708.2	713.3	719.2
77.5°	511.6	537.9	558.9	565.7	573.1
80°	366.0	395.2	416.1	425.5	439.7
82.5°	240.2	270.0	291.2	300.6	317.9
85°	127.5	154.1	175.4	190.9	198.3
87.5°	37.7	60.3	72.5	77.0	83.6
90°	0.0	2.8	3.4	7.6	7.1
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)