

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: P26538

Luminaire Tested: **4SWLED-LD4-40SL-LN-UNV-L835-CD1-SVPD1-U**

Test Date: 07/30/15



**Test Information**

Test Method: LM-79-08  
Report Number: P26538  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P26538)  
Test Lab: INNOVATION CENTER-P2  
Test Date: 07/30/15  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SWLED-LD4-40SL-LN-UNV-L835-CD1-SVPD1-U  
Description: METALUX LED 4' STAIRWELL LUMINAIRE WITH NARROW FROSTED LENS  
Light Source: (3) EATON 3500K LED BOARDS  
(1) 2UT217056A8354A, (2) 2UT119028A8354A  
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER  
OT50W0840CC

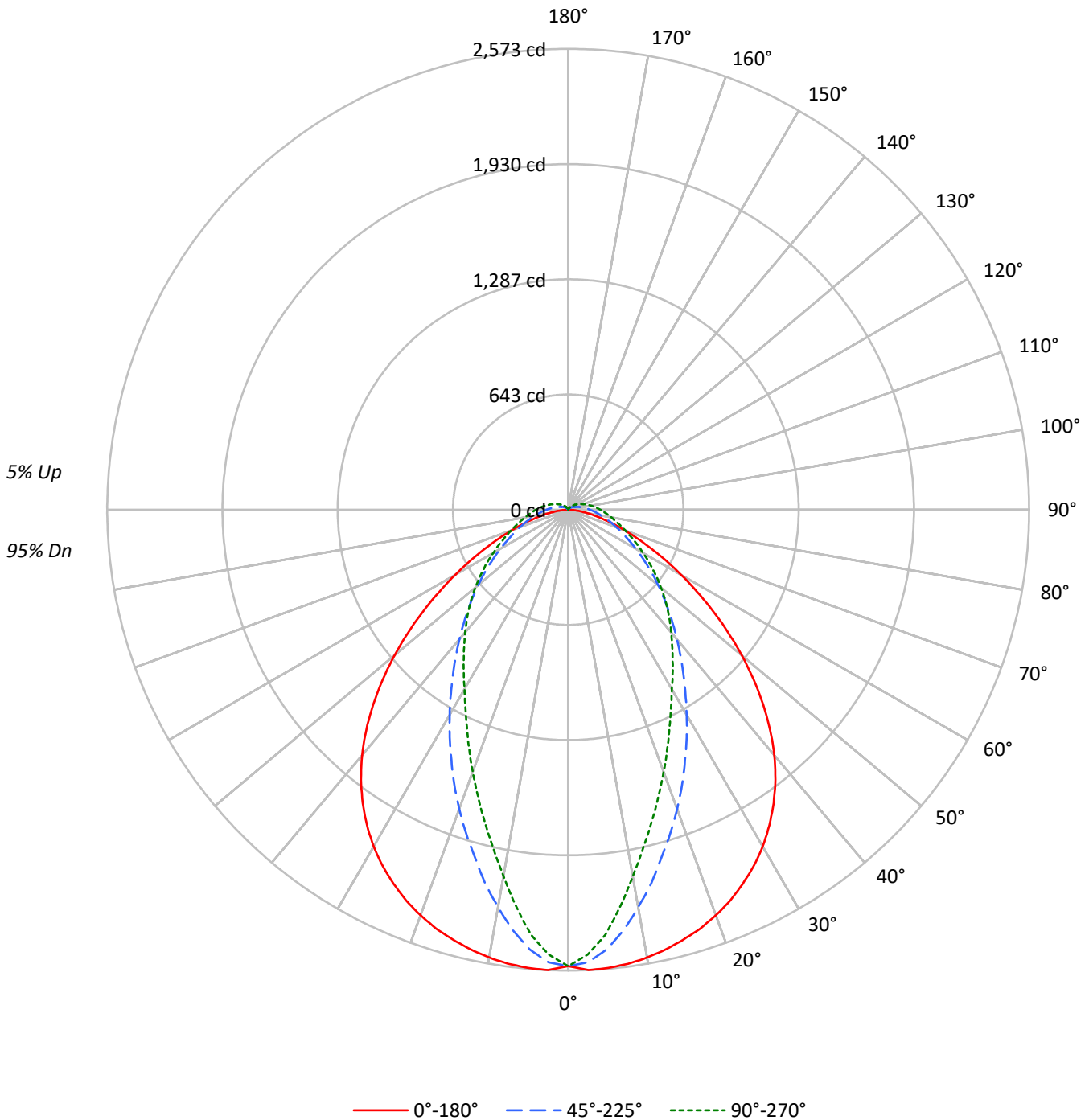
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4691.9 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 0.74 / 0.97  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.75' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 42.5  
Input Voltage (V): 120.06  
Input Current (A<sub>in</sub>): 0.35566  
Voltage Rise (V): NR  
Power Factor: 0.9993  
Total Harmonic Distortion (THDi): 7.79%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: 24 HR  
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	108	108	108	103	103	103	97	97	97	95	95	95	95	
1	108	103	99	95	105	101	97	93	95	92	89	91	88	86	86	84	82	80	80	80	80	
2	99	91	85	79	96	89	83	78	85	80	75	81	77	73	77	74	71	68	68	68	68	
3	91	81	73	67	88	79	72	66	76	70	65	72	67	63	69	65	61	59	59	59	59	
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52	52	52	52	
5	78	66	57	51	75	64	57	51	62	55	50	59	53	49	57	52	48	46	46	46	46	
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	47	43	41	41	41	41	
7	67	55	46	41	65	54	46	40	52	45	40	50	44	39	48	43	39	37	37	37	37	
8	63	50	42	37	61	49	42	37	48	41	36	46	40	36	45	39	35	33	33	33	33	
9	59	47	39	34	58	46	38	33	44	38	33	43	37	32	42	36	32	30	30	30	30	
10	56	43	36	31	54	43	35	31	41	35	30	40	34	30	39	33	30	28	28	28	28	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	19503	19503	19503
5°	19655	18377	17617
10°	19581	16505	14970
15°	19460	14578	12760
20°	19318	12864	10924
25°	19072	11222	9360
30°	18717	9748	8138
35°	18115	8426	7240
40°	17243	7312	6506
45°	15951	6355	5868
50°	14306	5532	5255
55°	12373	4798	4694
60°	10362	4175	4169
65°	8417	3672	3746
70°	6681	3283	3406
75°	5073	2996	3192
80°	3697	2784	3055
85°	2330	2696	3019



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.9	4.9
10°-20°	580.7	12.4
20°-30°	764.6	16.3
30°-40°	800.0	17.1
40°-50°	721.1	15.4
50°-60°	564.5	12.0
60°-70°	391.4	8.3
70°-80°	250.6	5.3
80°-90°	154.2	3.3
90°-100°	96.3	2.1
100°-110°	61.3	1.3
110°-120°	38.0	0.8
120°-130°	22.3	0.5
130°-140°	11.6	0.2
140°-150°	5.1	0.1
150°-160°	1.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1574.2	33.6
0°-40°	2374.2	50.6
0°-60°	3659.7	78.0
0°-90°	4455.9	95.0
90°-120°	195.5	4.2
90°-150°	234.5	5.0
90°-180°	236.0	5.0
0°-180°	4691.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2548	2548	2548	2548	2548	
5°	2568	2508	2464	2402	2382	244
15°	2485	2269	2010	1852	1802	702
25°	2305	1903	1543	1380	1338	1061
35°	1999	1460	1120	1026	1016	1247
45°	1539	1011	790	772	783	1183
55°	986	636	537	560	575	884
65°	509	366	353	391	404	511
75°	200	187	232	275	287	220
85°	40	84	152	197	209	46
90°	3	56	122	166	180	3
95°	0	37	96	139	154	0
105°	0	18	61	96	109	0
115°	0	10	39	65	74	1
125°	1	6	25	42	49	1
135°	1	3	14	26	30	1
145°	2	2	7	14	16	1
155°	2	2	3	6	7	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2548	2548	2548	2548	2548
2.5°	2573	2532	2529	2505	2486
5°	2568	2508	2464	2402	2382
7.5°	2557	2466	2368	2267	2233
10°	2539	2412	2253	2118	2077
12.5°	2515	2345	2138	1979	1934
15°	2485	2269	2010	1852	1802
17.5°	2452	2185	1895	1724	1676
20°	2410	2097	1778	1605	1558
22.5°	2362	2003	1661	1489	1445
25°	2305	1903	1543	1380	1338
27.5°	2243	1796	1432	1280	1242
30°	2172	1689	1323	1187	1157
32.5°	2090	1576	1218	1102	1085
35°	1999	1460	1120	1026	1016
37.5°	1900	1344	1029	956	953
40°	1790	1232	944	891	894
42.5°	1669	1120	865	830	838
45°	1539	1011	790	772	783
47.5°	1404	908	721	717	730
50°	1265	809	656	662	675
52.5°	1124	720	595	610	626
55°	986	636	537	560	575
57.5°	853	559	485	513	528
60°	729	489	436	469	482
62.5°	614	425	393	428	443
65°	509	366	353	391	404
67.5°	416	313	318	357	370
70°	335	266	286	327	338
72.5°	264	224	258	300	311
75°	200	187	232	275	287
77.5°	150	155	208	252	264
80°	105	127	187	233	244
82.5°	69	104	169	214	226
85°	40	84	152	197	209
87.5°	18	69	136	181	194
90°	3	56	122	166	180
92.5°	0	45	109	153	166
95°	0	37	96	139	154
97.5°	0	30	86	127	141
100°	0	25	76	116	130
102.5°	0	21	68	106	119
105°	0	18	61	96	109
107.5°	0	16	54	87	100
110°	0	14	48	79	90



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1	12	43	72	82
115°	0	10	39	65	74
117.5°	1	9	35	59	67
120°	1	8	31	53	61
122.5°	1	7	28	47	55
125°	1	6	25	42	49
127.5°	1	5	22	38	44
130°	1	4	19	34	39
132.5°	1	4	16	30	34
135°	1	3	14	26	30
137.5°	1	3	12	23	26
140°	2	2	10	19	22
142.5°	2	2	9	16	19
145°	2	2	7	14	16
147.5°	2	2	6	11	14
150°	2	2	5	9	11
152.5°	2	2	4	8	9
155°	2	2	3	6	7
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)