

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: P26537

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P26537
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P26537)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SWLED-LD4-40SL-LC-UNV-L835-CD1-SVPD1-U
Description: METALUX LED 4' STAIRWELL LUMINAIRE WITH CLEAR LENS
Light Source: (3) EATON 3500K LED BOARDS
(1) 2UT217056A8354A, (2) 2UT119028A8354A
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER
OT50W0840CC

Summary

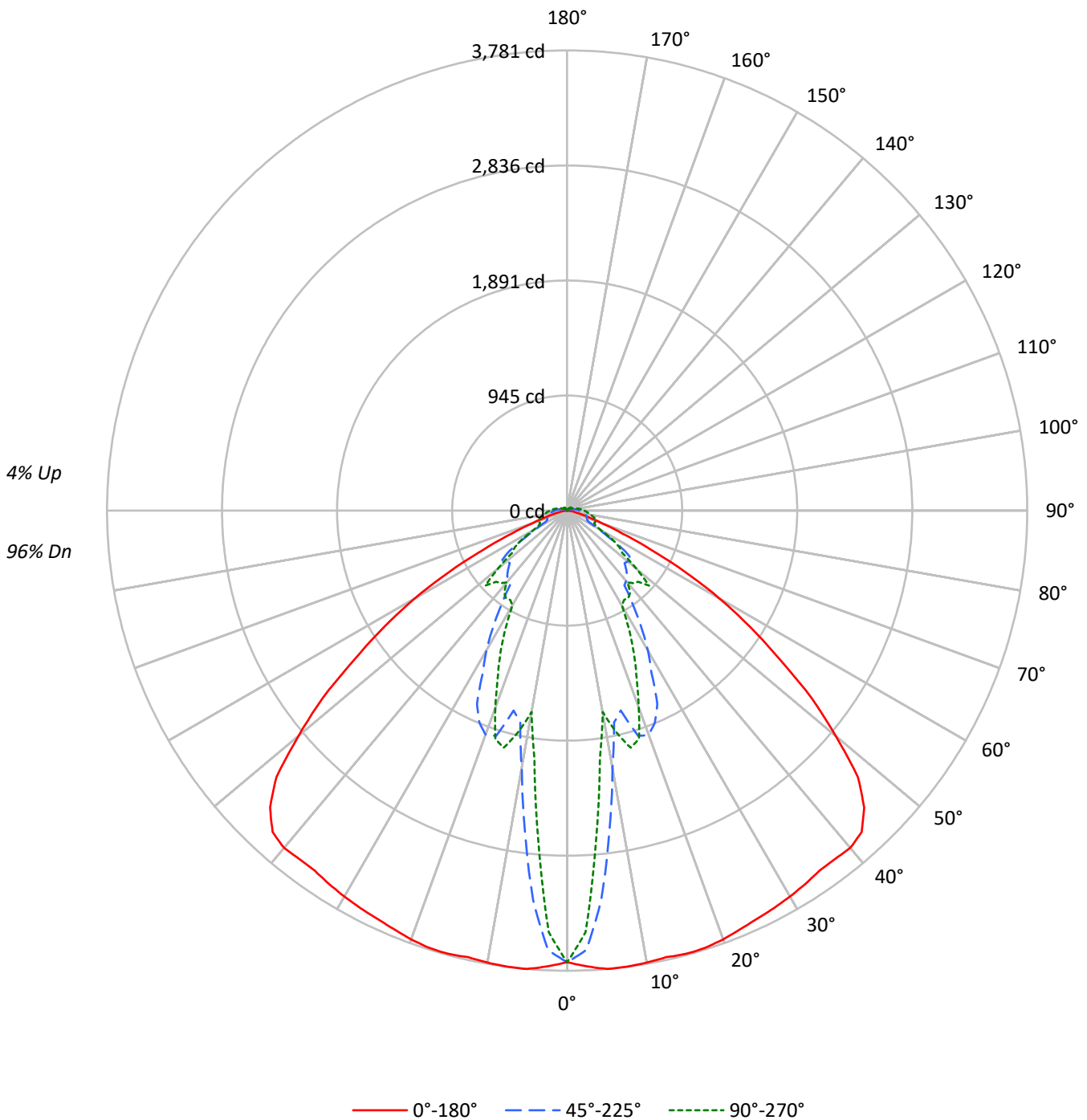
Lumens per Lamp: N/A
Luminaire Lumens: 4909.1 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.5 / 0.3 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.75' x H: 0.17')
CIE Type: Direct

Input Watts (W): 42.5
Input Voltage (V): 120.06
Input Current (Ain): 0.35573
Voltage Rise (V): NR
Power Factor: 0.9993
Total Harmonic Distortion (THDi): 6.61%
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	0
RCR																		
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	109	105	101	97	106	102	99	96	97	94	92	93	91	88	89	87	85	83
2	101	93	87	82	98	91	86	81	87	82	78	83	80	76	80	77	74	72
3	93	83	76	70	90	82	75	70	78	73	68	75	70	66	72	68	65	63
4	86	75	67	61	83	74	66	61	71	64	59	68	63	58	66	61	57	55
5	80	68	60	54	77	67	59	53	64	58	53	62	56	52	60	55	51	49
6	74	62	54	48	72	61	53	48	59	52	47	57	51	46	55	50	46	44
7	69	57	49	43	67	56	48	43	54	47	42	52	46	42	51	45	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	42	38	36
9	61	48	41	36	59	48	40	35	46	40	35	45	39	35	44	38	34	33
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28405	28405	28405
5°	28939	23963	20110
10°	29082	15729	12109
15°	29531	12329	14290
20°	30052	14181	12074
25°	30598	12750	9094
30°	31557	9785	6302
35°	32751	7034	6250
40°	34861	5832	5604
45°	35777	5526	6190
50°	32593	5482	5807
55°	26766	5217	4278
60°	20582	2633	2707
65°	12551	1872	2272
70°	6123	1974	2499
75°	3222	2131	2581
80°	1901	2174	2416
85°	990	2217	2427



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.9	5.7
10°-20°	637.2	13.0
20°-30°	850.5	17.3
30°-40°	870.6	17.7
40°-50°	853.0	17.4
50°-60°	636.6	13.0
60°-70°	299.1	6.1
70°-80°	181.7	3.7
80°-90°	121.6	2.5
90°-100°	75.9	1.5
100°-110°	42.3	0.9
110°-120°	24.1	0.5
120°-130°	14.1	0.3
130°-140°	13.4	0.3
140°-150°	5.7	0.1
150°-160°	1.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1769.6	36.0
0°-40°	2640.2	53.8
0°-60°	4129.8	84.1
0°-90°	4732.2	96.4
90°-120°	142.3	2.9
90°-150°	175.5	3.6
90°-180°	177.0	3.6
0°-180°	4909.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3711	3711	3711	3711	3711	
5°	3781	3616	3213	2840	2719	360
15°	3771	2443	1700	1989	2018	1067
25°	3698	1791	1753	1406	1300	1712
35°	3614	1511	935	870	877	2277
45°	3452	832	687	788	826	2611
55°	2133	457	584	508	524	1920
65°	759	190	180	243	245	792
75°	127	111	165	231	232	154
85°	17	62	125	162	168	21
90°	1	46	102	132	140	1
95°	0	34	81	104	115	0
105°	0	18	44	58	72	0
115°	1	9	26	39	45	1
125°	1	4	14	25	30	1
135°	2	3	13	35	47	1
145°	2	2	8	14	15	1
155°	3	3	4	6	5	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°	3711	3711	3711	3711	3711
2.5°	3749	3698	3614	3510	3467
5°	3781	3616	3213	2840	2719
7.5°	3780	3418	2655	2163	2055
10°	3771	3123	2147	1740	1680
12.5°	3759	2798	1781	1746	1867
15°	3771	2443	1700	1989	2018
17.5°	3768	2119	1942	2001	1965
20°	3749	1841	1960	1871	1722
22.5°	3722	1694	1885	1588	1490
25°	3698	1791	1753	1406	1300
27.5°	3682	1895	1498	1216	1102
30°	3662	1754	1328	1014	896
32.5°	3639	1618	1130	829	871
35°	3614	1511	935	870	877
37.5°	3611	1380	773	819	850
40°	3619	1237	753	805	770
42.5°	3582	1037	729	710	809
45°	3452	832	687	788	826
47.5°	3240	645	639	802	913
50°	2882	546	650	808	746
52.5°	2534	508	678	603	572
55°	2133	457	584	508	524
57.5°	1785	426	400	424	436
60°	1448	414	275	308	313
62.5°	1097	303	196	252	260
65°	759	190	180	243	245
67.5°	489	157	176	246	249
70°	307	141	172	242	248
72.5°	195	126	168	238	243
75°	127	111	165	231	232
77.5°	84	98	155	219	214
80°	54	84	146	201	193
82.5°	32	72	137	183	180
85°	17	62	125	162	168
87.5°	6	53	113	146	154
90°	1	46	102	132	140
92.5°	0	40	91	118	127
95°	0	34	81	104	115
97.5°	0	29	71	91	104
100°	0	25	61	78	92
102.5°	0	21	52	67	82
105°	0	18	44	58	72
107.5°	0	15	38	52	63
110°	0	13	33	47	55



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	10	30	43	49
115°	1	9	26	39	45
117.5°	1	7	23	35	40
120°	1	6	19	31	36
122.5°	1	5	17	28	32
125°	1	4	14	25	30
127.5°	1	4	13	24	32
130°	1	4	12	27	39
132.5°	2	3	12	32	46
135°	2	3	13	35	47
137.5°	2	3	14	32	39
140°	2	3	13	26	29
142.5°	2	3	10	20	21
145°	2	2	8	14	15
147.5°	2	3	6	11	11
150°	2	2	5	8	8
152.5°	2	3	4	7	6
155°	3	3	4	6	5
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)