

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: P26866

Luminaire Tested: **4SWLED-LD4-64HL-LW-UNV-L840-CD2-SVPDx**

Test Date: 10/06/15



**Test Information**

Test Method: LM-79-08  
Report Number: P26866  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P26866)  
Test Lab: INNOVATION CENTER-P2  
Test Date: 10/06/15  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SWLED-LD4-64HL-LW-UNV-L840-CD2-SVPDx  
Description: METALUX LED STAIRWELL 7000 LM DBL ROW WITH WIDE OPAQUE LENS  
Light Source: (224) EATON 4000K LEDS  
(2) 2UT217056A8404A, (4) 2UT119028A8404A  
Ballast/Driver: (2) OSRAM ELECTRONIC DRIVER  
OT50W0700CC

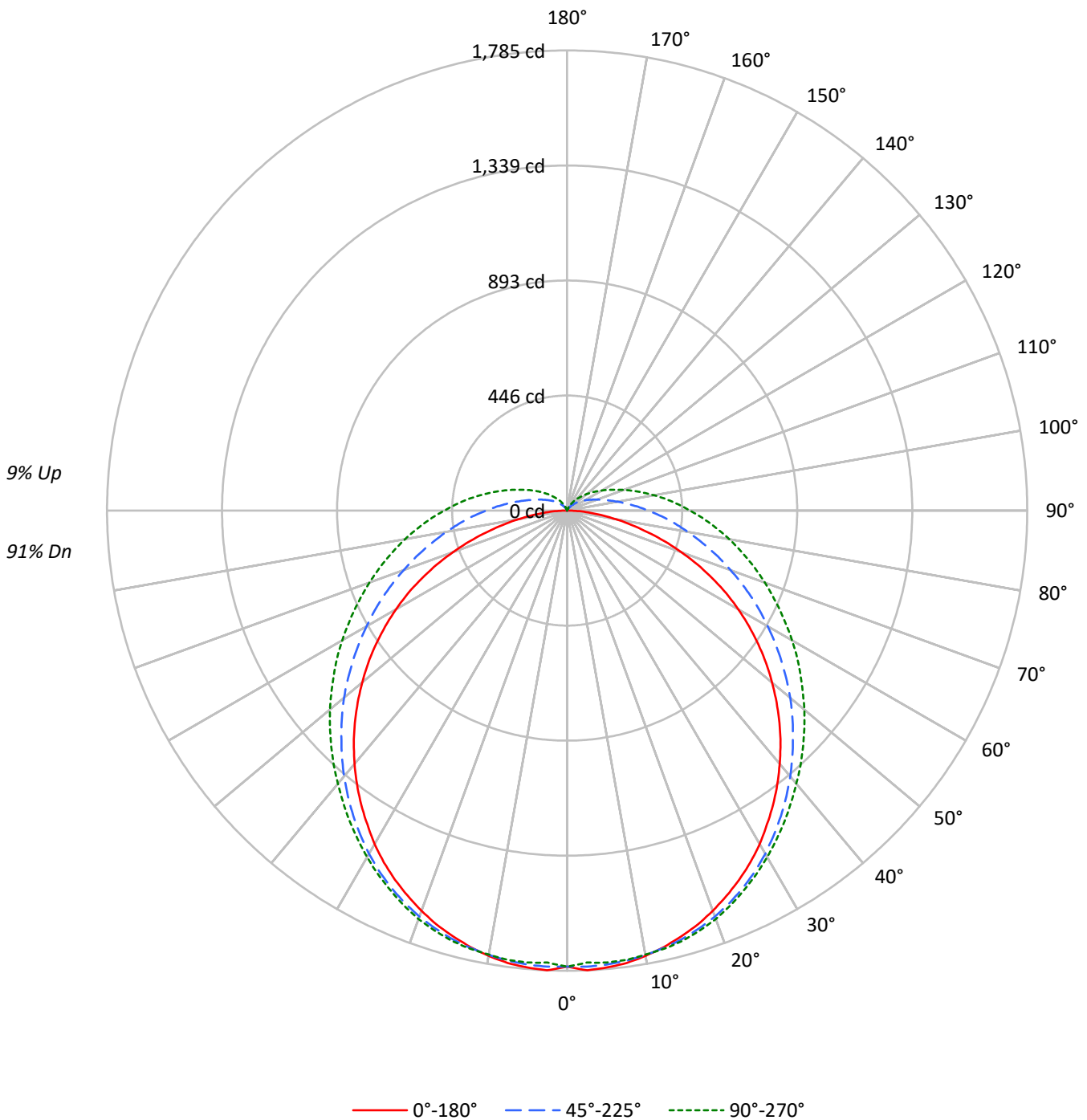
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6497.4 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.75' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 66.4  
Input Voltage (V): 120.02  
Input Current (A<sub>in</sub>): 0.55587  
Voltage Rise (V): NR  
Power Factor: 0.9984  
Total Harmonic Distortion (THDi): 8.00%  
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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91
1	104	99	94	89	101	95	91	87	89	86	82	84	81	78	79	76	74	71
2	94	85	77	71	91	82	75	69	77	71	66	72	68	63	68	64	61	58
3	85	74	65	58	82	72	64	57	67	60	55	63	57	53	59	55	51	48
4	78	65	56	49	75	63	55	48	59	52	46	56	50	45	53	47	43	40
5	72	58	49	42	69	56	48	41	53	45	40	50	44	38	47	42	37	35
6	66	52	43	36	63	51	42	36	48	40	35	45	39	33	43	37	32	30
7	61	47	38	32	59	46	37	31	43	36	30	41	34	30	39	33	29	26
8	57	43	34	28	55	42	34	28	40	32	27	38	31	26	36	30	26	24
9	53	39	31	25	51	38	30	25	36	29	24	35	28	24	33	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	31	25	21	19

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

	0°	45°	90°
0°	13541	13541	13541
5°	13616	13186	13017
10°	13527	12820	12606
15°	13391	12482	12236
20°	13242	12126	11821
25°	13073	11739	11361
30°	12874	11324	10916
35°	12624	10878	10483
40°	12359	10425	10065
45°	12074	9967	9697
50°	11739	9530	9349
55°	11369	9059	9012
60°	10902	8599	8719
65°	10285	8175	8439
70°	9394	7736	8222
75°	8168	7374	8064
80°	6689	7072	7988
85°	4776	6935	8017



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.8	2.6
10°-20°	484.2	7.5
20°-30°	738.6	11.4
30°-40°	897.5	13.8
40°-50°	950.7	14.6
50°-60°	902.5	13.9
60°-70°	769.0	11.8
70°-80°	583.0	9.0
80°-90°	394.5	6.1
90°-100°	252.0	3.9
100°-110°	158.8	2.4
110°-120°	97.2	1.5
120°-130°	56.6	0.9
130°-140°	29.1	0.4
140°-150°	12.1	0.2
150°-160°	3.2	0.0
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	1390.7	21.4
0°-40°	2288.2	35.2
0°-60°	4141.4	63.7
0°-90°	5887.9	90.6
90°-120°	508.0	7.8
90°-150°	605.8	9.3
90°-180°	609.0	9.4
0°-180°	6497.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1769	1769	1769	1769	1769	
5°	1779	1759	1768	1760	1760	169
15°	1710	1697	1721	1725	1728	483
25°	1580	1577	1614	1617	1624	728
35°	1393	1402	1446	1456	1471	871
45°	1165	1187	1239	1270	1294	898
55°	906	942	1014	1074	1104	809
65°	622	678	786	874	910	615
75°	322	421	571	685	725	344
85°	82	215	391	513	555	89
90°	4	144	314	436	476	6
95°	0	95	251	366	407	0
105°	0	47	156	249	284	0
115°	0	28	99	165	191	0
125°	0	16	63	108	126	0
135°	0	7	35	66	78	0
145°	1	4	16	34	42	1
155°	1	1	5	11	15	0
165°	1	1	1	2	3	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°	1769	1769	1769	1769	1769
2.5°	1785	1764	1771	1764	1755
5°	1779	1759	1768	1760	1760
7.5°	1770	1750	1761	1756	1758
10°	1754	1736	1750	1748	1749
12.5°	1734	1718	1737	1737	1741
15°	1710	1697	1721	1725	1728
17.5°	1684	1672	1700	1706	1709
20°	1652	1644	1676	1679	1686
22.5°	1617	1612	1647	1649	1657
25°	1580	1577	1614	1617	1624
27.5°	1539	1538	1578	1581	1590
30°	1494	1496	1537	1542	1552
32.5°	1443	1451	1492	1499	1512
35°	1393	1402	1446	1456	1471
37.5°	1339	1353	1397	1410	1427
40°	1283	1300	1346	1364	1383
42.5°	1225	1244	1293	1318	1340
45°	1165	1187	1239	1270	1294
47.5°	1102	1129	1185	1221	1248
50°	1038	1067	1130	1172	1201
52.5°	973	1005	1072	1123	1152
55°	906	942	1014	1074	1104
57.5°	837	876	957	1023	1057
60°	767	811	898	973	1008
62.5°	696	745	843	924	958
65°	622	678	786	874	910
67.5°	547	611	730	825	862
70°	471	545	674	779	816
72.5°	396	482	622	731	770
75°	322	421	571	685	725
77.5°	256	362	521	642	681
80°	190	307	475	598	638
82.5°	132	258	432	555	596
85°	82	215	391	513	555
87.5°	39	177	351	473	516
90°	4	144	314	436	476
92.5°	0	117	282	400	441
95°	0	95	251	366	407
97.5°	0	78	223	334	374
100°	0	65	198	304	342
102.5°	0	55	175	275	312
105°	0	47	156	249	284
107.5°	0	41	139	225	258
110°	0	36	124	203	234



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0	31	111	183	212
115°	0	28	99	165	191
117.5°	0	24	89	149	173
120°	0	21	79	134	156
122.5°	0	19	71	121	141
125°	0	16	63	108	126
127.5°	0	13	55	96	112
130°	0	11	48	86	100
132.5°	0	9	41	76	89
135°	0	7	35	66	78
137.5°	1	6	30	58	68
140°	0	5	25	49	58
142.5°	1	4	20	41	50
145°	1	4	16	34	42
147.5°	1	3	12	27	34
150°	1	2	9	21	27
152.5°	1	2	7	15	21
155°	1	1	5	11	15
157.5°	1	1	4	8	10
160°	1	1	3	5	7
162.5°	1	1	2	3	5
165°	1	1	1	2	3
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)