

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: P26864

Luminaire Tested: **4SWLED-LD4-60HL-LW-UNV-L840-CD2-SVPDx**

Test Date: 10/06/15



Test Information

Test Method: LM-79-08
Report Number: P26864
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P26864)
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-LD4-60HL-LW-UNV-L840-CD2-SVPDx
Description: METALUX LED STAIRWELL 6000 LM DBL ROW WITH WIDE OPAQUE LENS
Light Source: (224) EATON 4000K LEDS
(2) 2UT217056A8404A, (4) 2UT119028A8404A
Ballast/Driver: (2) OSRAM ELECTRONIC DRIVER
OT50W0640CC

Summary

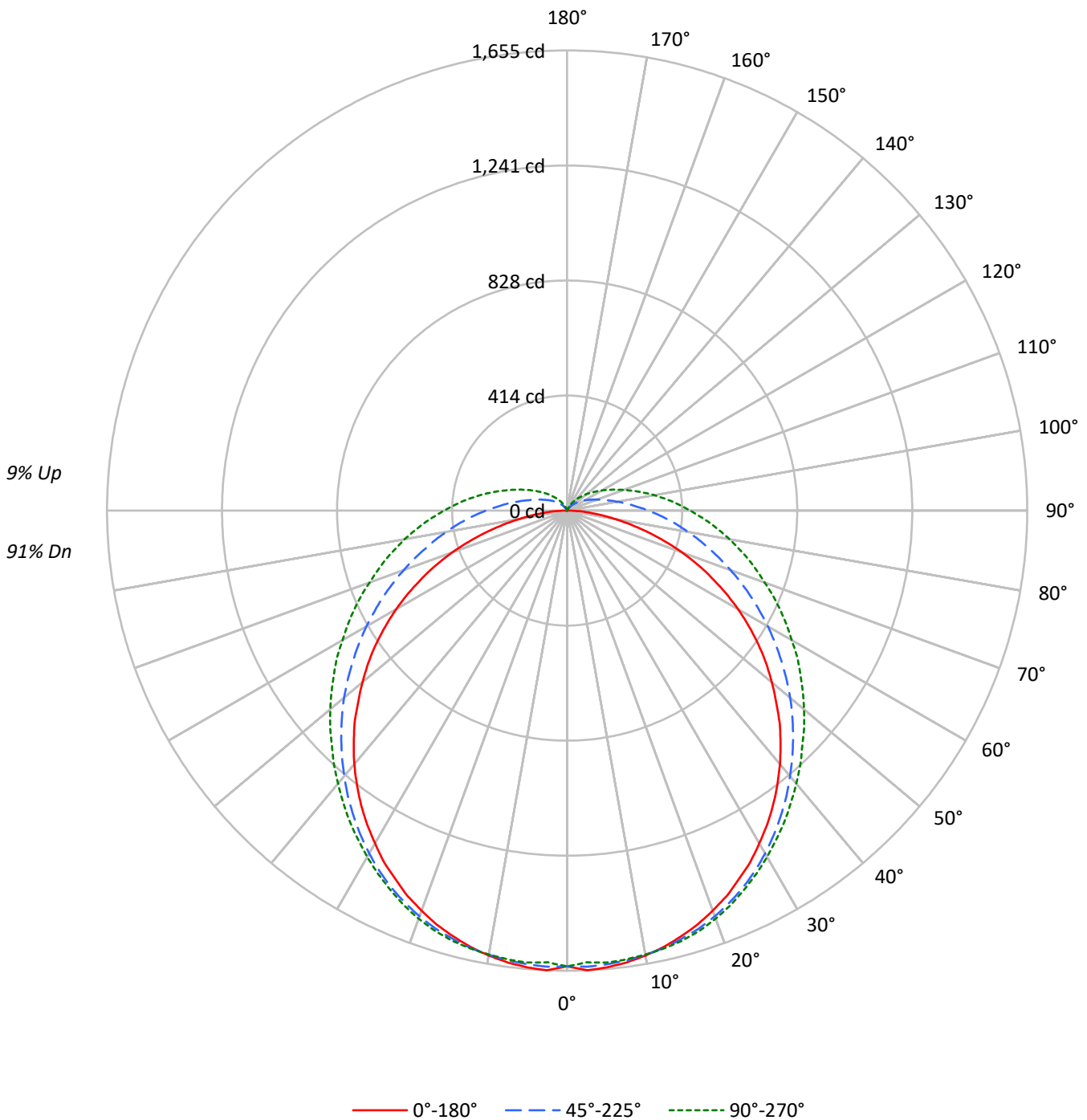
Lumens per Lamp: N/A
Luminaire Lumens: 6021.3 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.75' x H: 0.17')
CIE Type: Direct

Input Watts (W): 60.4
Input Voltage (V): 120.04
Input Current (A_{in}): 0.50578
Voltage Rise (V): NR
Power Factor: 0.9979
Total Harmonic Distortion (THDi): 7.95%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P26864

CATALOG NUMBER: 4SWLED-LD4-60HL-LW-UNV-L840-CD2-SVPDx

Luminous Intensity Polar Plot





TEST NUMBER: P26864

CATALOG NUMBER: 4SWLED-LD4-60HL-LW-UNV-L840-CD2-SVPDx

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	71	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°	12545	12545	12545
5°	12621	12216	12070
10°	12532	11883	11683
15°	12412	11561	11337
20°	12272	11236	10952
25°	12097	10881	10529
30°	11909	10492	10114
35°	11708	10081	9720
40°	11473	9658	9330
45°	11204	9243	8963
50°	10868	8830	8657
55°	10541	8398	8359
60°	10092	7986	8070
65°	9508	7572	7845
70°	8756	7174	7617
75°	7635	6818	7497
80°	6161	6566	7425
85°	4426	6421	7453



TEST NUMBER: P26864

CATALOG NUMBER: 4SWLED-LD4-60HL-LW-UNV-L840-CD2-SVPDx

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	2.6
10°-20°	448.7	7.5
20°-30°	684.3	11.4
30°-40°	831.8	13.8
40°-50°	880.8	14.6
50°-60°	836.6	13.9
60°-70°	712.7	11.8
70°-80°	540.2	9.0
80°-90°	365.8	6.1
90°-100°	233.6	3.9
100°-110°	147.3	2.4
110°-120°	90.2	1.5
120°-130°	52.4	0.9
130°-140°	26.9	0.4
140°-150°	11.2	0.2
150°-160°	3.0	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	1288.5	21.4
0°-40°	2120.3	35.2
0°-60°	3837.7	63.7
0°-90°	5456.3	90.6
90°-120°	471.1	7.8
90°-150°	561.6	9.3
90°-180°	565.0	9.4
0°-180°	6021.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1639	1639	1639	1639	1639	
5°	1649	1630	1638	1631	1632	157
15°	1585	1573	1594	1598	1601	447
25°	1462	1461	1496	1497	1505	674
35°	1292	1300	1340	1349	1364	808
45°	1081	1098	1149	1176	1196	833
55°	840	872	940	996	1024	750
65°	575	627	728	810	846	569
75°	301	388	528	635	674	320
85°	76	200	362	475	516	82
90°	3	134	292	403	442	6
95°	0	89	232	339	378	0
105°	0	44	144	231	264	0
115°	0	26	92	153	178	0
125°	0	14	58	100	116	0
135°	0	6	33	62	72	0
145°	1	3	15	31	38	1
155°	1	1	5	10	14	0
165°	1	1	1	2	3	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P26864

CATALOG NUMBER: 4SWLED-LD4-60HL-LW-UNV-L840-CD2-SVPDx

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1639	1639	1639	1639	1639
2.5°	1655	1635	1642	1635	1626
5°	1649	1630	1638	1631	1632
7.5°	1639	1621	1632	1627	1628
10°	1625	1609	1622	1620	1621
12.5°	1607	1593	1611	1610	1613
15°	1585	1573	1594	1598	1601
17.5°	1561	1550	1576	1580	1584
20°	1531	1523	1553	1555	1562
22.5°	1500	1494	1526	1527	1536
25°	1462	1461	1496	1497	1505
27.5°	1426	1425	1462	1465	1473
30°	1382	1386	1424	1428	1438
32.5°	1339	1344	1383	1390	1401
35°	1292	1300	1340	1349	1364
37.5°	1242	1252	1295	1307	1323
40°	1191	1203	1247	1264	1282
42.5°	1136	1151	1199	1221	1241
45°	1081	1098	1149	1176	1196
47.5°	1020	1045	1099	1132	1156
50°	961	988	1047	1087	1112
52.5°	902	931	994	1043	1068
55°	840	872	940	996	1024
57.5°	775	811	887	949	981
60°	710	751	834	903	933
62.5°	643	690	780	857	890
65°	575	627	728	810	846
67.5°	509	565	676	766	802
70°	439	503	625	721	756
72.5°	369	444	576	677	715
75°	301	388	528	635	674
77.5°	236	336	485	594	632
80°	175	285	441	553	593
82.5°	122	240	402	513	553
85°	76	200	362	475	516
87.5°	35	164	326	438	478
90°	3	134	292	403	442
92.5°	0	109	260	370	409
95°	0	89	232	339	378
97.5°	0	73	207	310	347
100°	0	60	183	282	318
102.5°	0	51	163	255	290
105°	0	44	144	231	264
107.5°	0	38	129	209	239
110°	0	33	115	188	217



TEST NUMBER: P26864

CATALOG NUMBER: 4SWLED-LD4-60HL-LW-UNV-L840-CD2-SVPDx

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	29	103	170	196
115°	0	26	92	153	178
117.5°	0	22	82	138	160
120°	0	20	74	125	145
122.5°	0	17	66	112	130
125°	0	14	58	100	116
127.5°	0	12	51	89	104
130°	0	10	45	79	93
132.5°	1	8	38	70	82
135°	0	6	33	62	72
137.5°	0	5	28	53	62
140°	1	5	23	45	54
142.5°	1	4	19	38	46
145°	1	3	15	31	38
147.5°	1	3	11	25	32
150°	1	2	8	19	25
152.5°	1	2	7	14	19
155°	1	1	5	10	14
157.5°	1	1	4	7	9
160°	1	1	3	5	6
162.5°	1	1	2	3	4
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)