

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: P26862

Luminaire Tested: **4SWLED-LD4-52HL-LW-UNV-L840-CD2-SVPDx**

Test Date: 10/06/15



Test Information

Test Method: LM-79-08
Report Number: P26862
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P26862)
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-LD4-52HL-LW-UNV-L840-CD2-SVPDx
Description: METALUX LED STAIRWELL 5200 LM DBL ROW WITH WIDE OPAQUE LENS
Light Source: (224) EATON 4000K LEDS
(2) 2UT217056A8404A, (4) 2UT119028A8404A
Ballast/Driver: (2) OSRAM ELECTRONIC DRIVER
OT50W0540CC

Summary

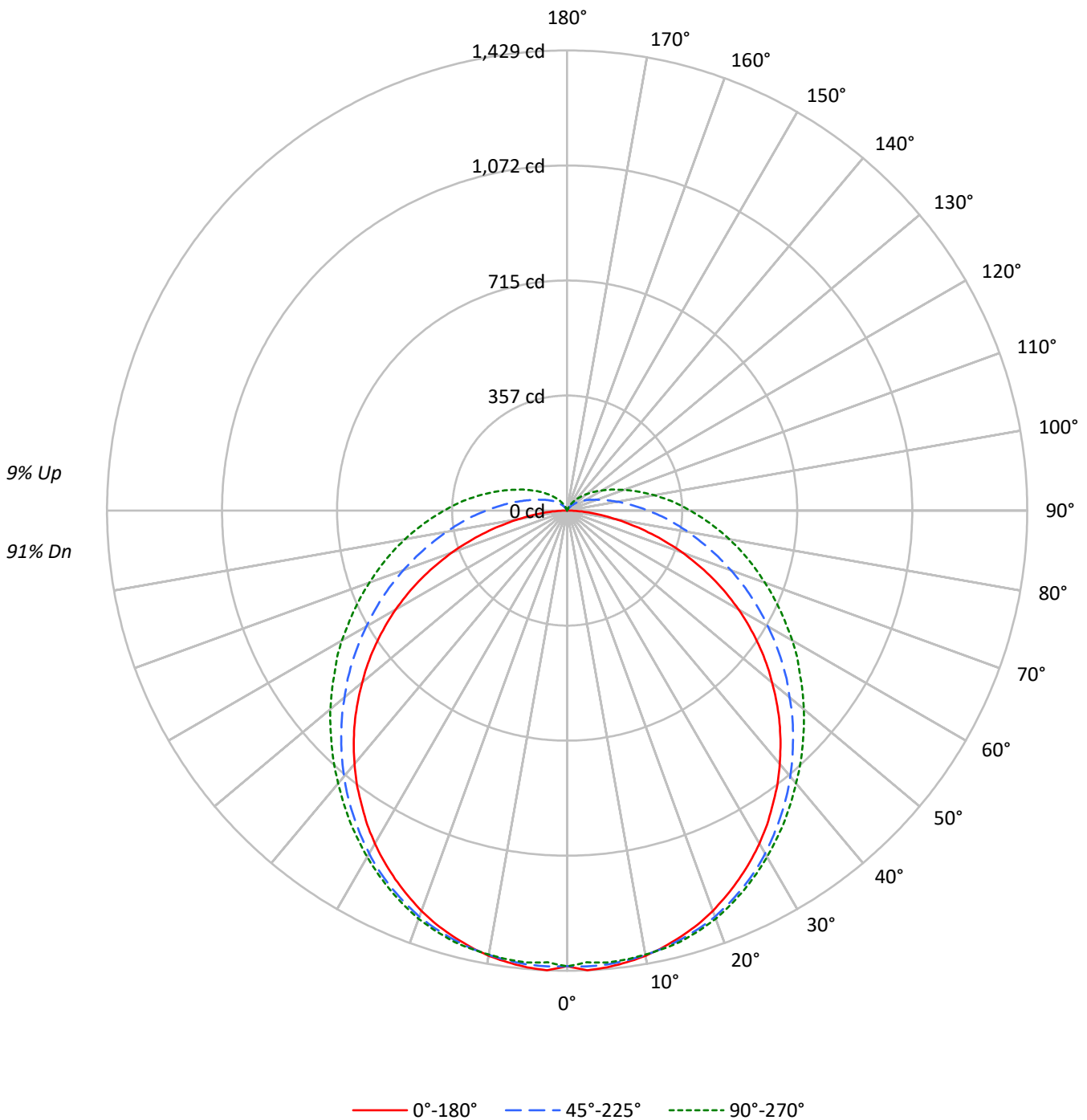
Lumens per Lamp: N/A
Luminaire Lumens: 5200.5 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.75' x H: 0.17')
CIE Type: Direct

Input Watts (W): 50.7
Input Voltage (V): 120.01
Input Current (A_{in}): 0.42524
Voltage Rise (V): NR
Power Factor: 0.9967
Total Harmonic Distortion (THDi): 7.94%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P26862

CATALOG NUMBER: 4SWLED-LD4-52HL-LW-UNV-L840-CD2-SVPDx

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	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°	10831	10831	10831
5°	10899	10553	10421
10°	10828	10264	10091
15°	10721	9987	9793
20°	10605	9710	9458
25°	10450	9397	9094
30°	10289	9063	8736
35°	10086	8704	8388
40°	9893	8349	8049
45°	9670	7980	7749
50°	9398	7607	7473
55°	9110	7263	7200
60°	8742	6894	6989
65°	8251	6553	6760
70°	7599	6210	6580
75°	6621	5901	6463
80°	5351	5673	6398
85°	3844	5552	6413



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	2.6
10°-20°	387.5	7.5
20°-30°	591.1	11.4
30°-40°	718.3	13.8
40°-50°	760.7	14.6
50°-60°	722.4	13.9
60°-70°	616.1	11.8
70°-80°	466.7	9.0
80°-90°	315.6	6.1
90°-100°	201.6	3.9
100°-110°	127.1	2.4
110°-120°	77.9	1.5
120°-130°	45.3	0.9
130°-140°	23.3	0.4
140°-150°	9.6	0.2
150°-160°	2.6	0.0
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	1112.9	21.4
0°-40°	1831.2	35.2
0°-60°	3314.4	63.7
0°-90°	4712.8	90.6
90°-120°	406.6	7.8
90°-150°	484.8	9.3
90°-180°	488.0	9.4
0°-180°	5200.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1415	1415	1415	1415	1415	
5°	1424	1408	1415	1408	1409	135
15°	1369	1358	1377	1380	1383	386
25°	1263	1262	1292	1294	1300	582
35°	1113	1122	1157	1165	1177	697
45°	933	949	992	1016	1034	719
55°	726	753	813	859	882	649
65°	499	544	630	700	729	493
75°	261	336	457	547	581	277
85°	66	172	313	410	444	72
90°	3	115	251	348	382	5
95°	0	76	200	293	327	0
105°	0	38	124	200	228	0
115°	0	22	79	132	154	0
125°	0	12	50	86	101	0
135°	0	6	28	53	62	0
145°	0	3	13	27	33	0
155°	1	1	4	8	12	0
165°	1	0	1	2	2	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°	1415	1415	1415	1415	1415
2.5°	1429	1412	1417	1411	1404
5°	1424	1408	1415	1408	1409
7.5°	1415	1400	1409	1405	1406
10°	1404	1389	1401	1399	1400
12.5°	1388	1375	1391	1390	1393
15°	1369	1358	1377	1380	1383
17.5°	1348	1339	1361	1364	1367
20°	1323	1316	1342	1343	1349
22.5°	1294	1291	1318	1319	1326
25°	1263	1262	1292	1294	1300
27.5°	1230	1231	1263	1266	1272
30°	1194	1197	1230	1233	1242
32.5°	1156	1161	1194	1200	1210
35°	1113	1122	1157	1165	1177
37.5°	1073	1082	1119	1130	1142
40°	1027	1039	1078	1092	1106
42.5°	981	995	1036	1055	1071
45°	933	949	992	1016	1034
47.5°	883	903	949	977	997
50°	831	853	902	939	960
52.5°	780	804	859	898	921
55°	726	753	813	859	882
57.5°	671	701	767	820	847
60°	615	649	720	778	808
62.5°	557	597	675	739	767
65°	499	544	630	700	729
67.5°	439	490	585	661	691
70°	381	438	541	622	653
72.5°	320	385	498	584	617
75°	261	336	457	547	581
77.5°	205	290	417	512	546
80°	152	247	381	477	511
82.5°	106	206	345	444	477
85°	66	172	313	410	444
87.5°	32	141	281	379	412
90°	3	115	251	348	382
92.5°	0	94	225	320	354
95°	0	76	200	293	327
97.5°	0	62	178	268	300
100°	0	52	158	243	274
102.5°	0	44	140	220	250
105°	0	38	124	200	228
107.5°	0	33	111	180	207
110°	0	29	99	163	187



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	25	88	147	170
115°	0	22	79	132	154
117.5°	0	19	71	120	139
120°	0	17	63	108	125
122.5°	0	15	57	97	113
125°	0	12	50	86	101
127.5°	0	11	44	77	90
130°	0	9	38	68	80
132.5°	0	7	33	61	71
135°	0	6	28	53	62
137.5°	0	5	24	46	54
140°	0	4	20	39	47
142.5°	0	3	16	33	40
145°	0	3	13	27	33
147.5°	1	2	10	21	27
150°	1	2	7	17	22
152.5°	1	1	6	12	17
155°	1	1	4	8	12
157.5°	1	1	3	6	8
160°	1	1	2	4	6
162.5°	1	1	1	3	4
165°	1	0	1	2	2
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)