

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: P26539

Luminaire Tested: **4SWLED-LD4-40SL-LW-UNV-EL7W-L835-CD1-SVPD2-U**

Test Date: 07/30/15



**Test Information**

Test Method: LM-79-08  
Report Number: P26539  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P26539)  
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-LW-UNV-EL7W-L835-CD1-SVPD2-U  
Description: METALUX LED 4' STAIRWELL LUMINAIRE RUN IN VDC  
Light Source: (3) EATON 3500K LED BOARDS  
(1) 2UT217056A8354A, (2) 2UT119028A8354A  
Ballast/Driver: (1) AGILENTDC POWER SUPPLY  
IN0011 DC POWER SUPPLY

**Summary**

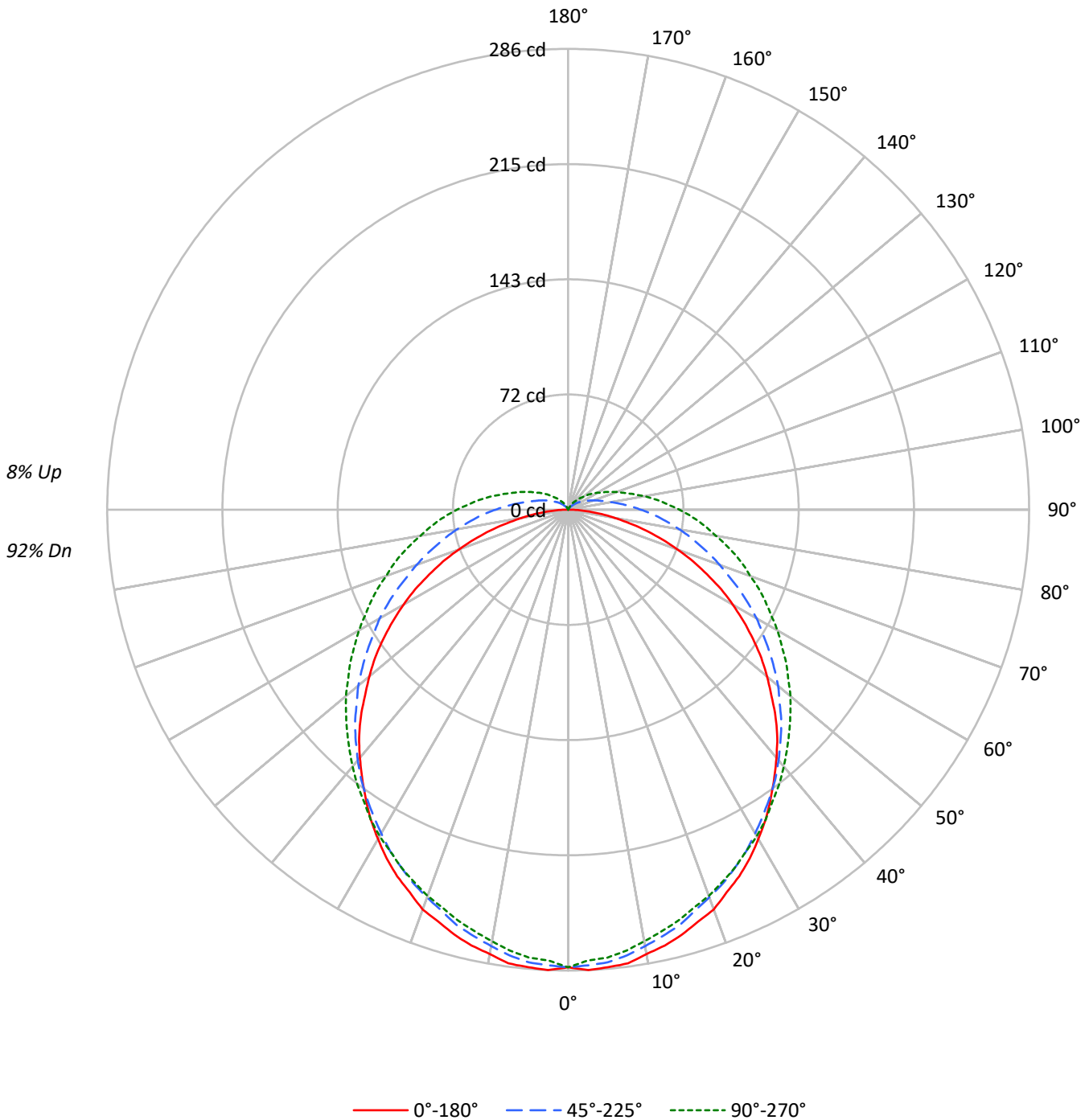
Lumens per Lamp: N/A  
Luminaire Lumens: 972.9 lumens  
Efficiency: N/A  
Efficacy: 139.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.75' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 0.18389  
Voltage Rise (V): NR  
Power Factor: 1  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): DC  
Stabilization Time: NR  
Operation Time: NR  
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	50	30	10	0		
RCR																										
0	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	94	94	94	94	94	94	92		
1	105	99	94	89	101	96	91	87	90	86	83	85	82	79	80	77	75	75	75	75	75	75	75	72		
2	94	85	78	71	91	83	76	70	78	72	67	73	68	64	69	65	61	61	61	61	61	61	61	59		
3	86	74	66	59	82	72	64	58	68	61	55	64	58	53	60	55	51	51	51	51	51	51	51	49		
4	78	66	56	49	75	64	55	48	60	53	47	57	50	45	54	48	44	44	44	44	44	44	44	41		
5	72	58	49	42	69	57	48	41	54	46	40	51	44	39	48	42	38	38	38	38	38	38	38	35		
6	66	52	43	37	64	51	42	36	48	41	35	46	39	34	44	38	33	33	33	33	33	33	33	31		
7	61	47	38	32	59	46	38	32	44	36	31	42	35	30	40	34	29	29	29	29	29	29	29	27		
8	57	43	35	29	55	42	34	28	40	33	28	38	32	27	36	31	26	26	26	26	26	26	26	24		
9	53	40	31	26	51	39	31	25	37	30	25	35	29	24	34	28	24	24	24	24	24	24	24	22		
10	50	37	29	23	48	36	28	23	34	27	22	33	26	22	31	26	21	21	21	21	21	21	21	20		

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

	0°	45°	90°
0°	2174	2174	2174
5°	2181	2103	2063
10°	2159	2015	1960
15°	2138	1936	1869
20°	2116	1852	1788
25°	2077	1782	1714
30°	2034	1709	1646
35°	1985	1640	1575
40°	1936	1572	1514
45°	1886	1504	1454
50°	1821	1434	1401
55°	1757	1358	1347
60°	1677	1293	1297
65°	1571	1217	1252
70°	1436	1148	1209
75°	1268	1085	1190
80°	1021	1042	1164
85°	757	1011	1170



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.6	2.7
10°-20°	75.3	7.7
20°-30°	113.1	11.6
30°-40°	136.5	14.0
40°-50°	143.9	14.8
50°-60°	135.9	14.0
60°-70°	114.9	11.8
70°-80°	86.4	8.9
80°-90°	57.7	5.9
90°-100°	35.7	3.7
100°-110°	21.7	2.2
110°-120°	13.0	1.3
120°-130°	7.3	0.8
130°-140°	3.5	0.4
140°-150°	1.3	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	215.0	22.1
0°-40°	351.5	36.1
0°-60°	631.3	64.9
0°-90°	890.3	91.5
90°-120°	70.4	7.2
90°-150°	82.5	8.5
90°-180°	83.0	8.5
0°-180°	972.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	284	284	284	284	284	
5°	285	281	282	280	279	27
15°	273	268	267	265	264	77
25°	251	244	245	244	245	116
35°	219	214	218	220	221	137
45°	182	179	187	191	194	140
55°	140	142	152	161	165	125
65°	95	102	117	130	135	94
75°	50	63	84	101	107	53
85°	13	31	57	74	81	14
90°	1	21	45	63	69	1
95°	0	13	35	52	58	0
105°	0	6	21	34	39	0
115°	0	3	13	22	26	0
125°	0	2	8	14	17	0
135°	0	0	4	8	10	0
145°	0	0	1	4	5	0
155°	0	0	0	1	1	0
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°	284	284	284	284	284
2.5°	286	282	283	282	280
5°	285	281	282	280	279
7.5°	284	279	279	277	276
10°	280	276	275	272	272
12.5°	277	272	271	268	268
15°	273	268	267	265	264
17.5°	268	263	261	260	259
20°	264	257	256	255	255
22.5°	257	251	251	249	250
25°	251	244	245	244	245
27.5°	244	237	239	239	239
30°	236	230	232	233	234
32.5°	228	222	225	226	228
35°	219	214	218	220	221
37.5°	210	206	211	213	215
40°	201	197	203	206	208
42.5°	192	189	195	199	201
45°	182	179	187	191	194
47.5°	171	171	178	184	187
50°	161	161	170	176	180
52.5°	151	152	161	169	172
55°	140	142	152	161	165
57.5°	129	132	143	153	157
60°	118	122	135	145	150
62.5°	107	112	126	137	142
65°	95	102	117	130	135
67.5°	84	92	108	122	128
70°	72	82	100	115	120
72.5°	61	72	92	108	114
75°	50	63	84	101	107
77.5°	39	54	77	94	100
80°	29	46	70	87	93
82.5°	21	38	63	81	87
85°	13	31	57	74	81
87.5°	7	26	51	69	75
90°	1	21	45	63	69
92.5°	0	17	40	57	63
95°	0	13	35	52	58
97.5°	0	11	31	47	53
100°	0	9	27	42	48
102.5°	0	7	24	38	43
105°	0	6	21	34	39
107.5°	0	5	19	31	35
110°	0	5	17	28	32



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0	4	15	25	29
115°	0	3	13	22	26
117.5°	0	3	12	20	23
120°	0	2	10	18	21
122.5°	0	2	9	16	19
125°	0	2	8	14	17
127.5°	0	1	7	13	15
130°	0	1	6	11	13
132.5°	0	1	5	10	11
135°	0	0	4	8	10
137.5°	0	0	3	7	9
140°	0	0	3	6	7
142.5°	0	0	2	5	6
145°	0	0	1	4	5
147.5°	0	0	1	3	4
150°	0	0	0	2	3
152.5°	0	0	0	1	2
155°	0	0	0	1	1
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)