

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: P26220

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

Test Date: 06/01/15



Test Information

Test Method: LM-79-08
Report Number: P26220
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P26220)
Test Lab: INNOVATION CENTER-P2
Test Date: 06/01/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SWLED-LD4-40SL-LW-UNV-L835-CD1
Description: METALUX LED 4' STAIRWELL LUMINAIRE WITH OPAQUE LENS
Light Source: (3) EATON 3500K LED BOARDS
(1)2UT217056T8354A, (2) 2UT119028T8354A
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER
OTI50W

Summary

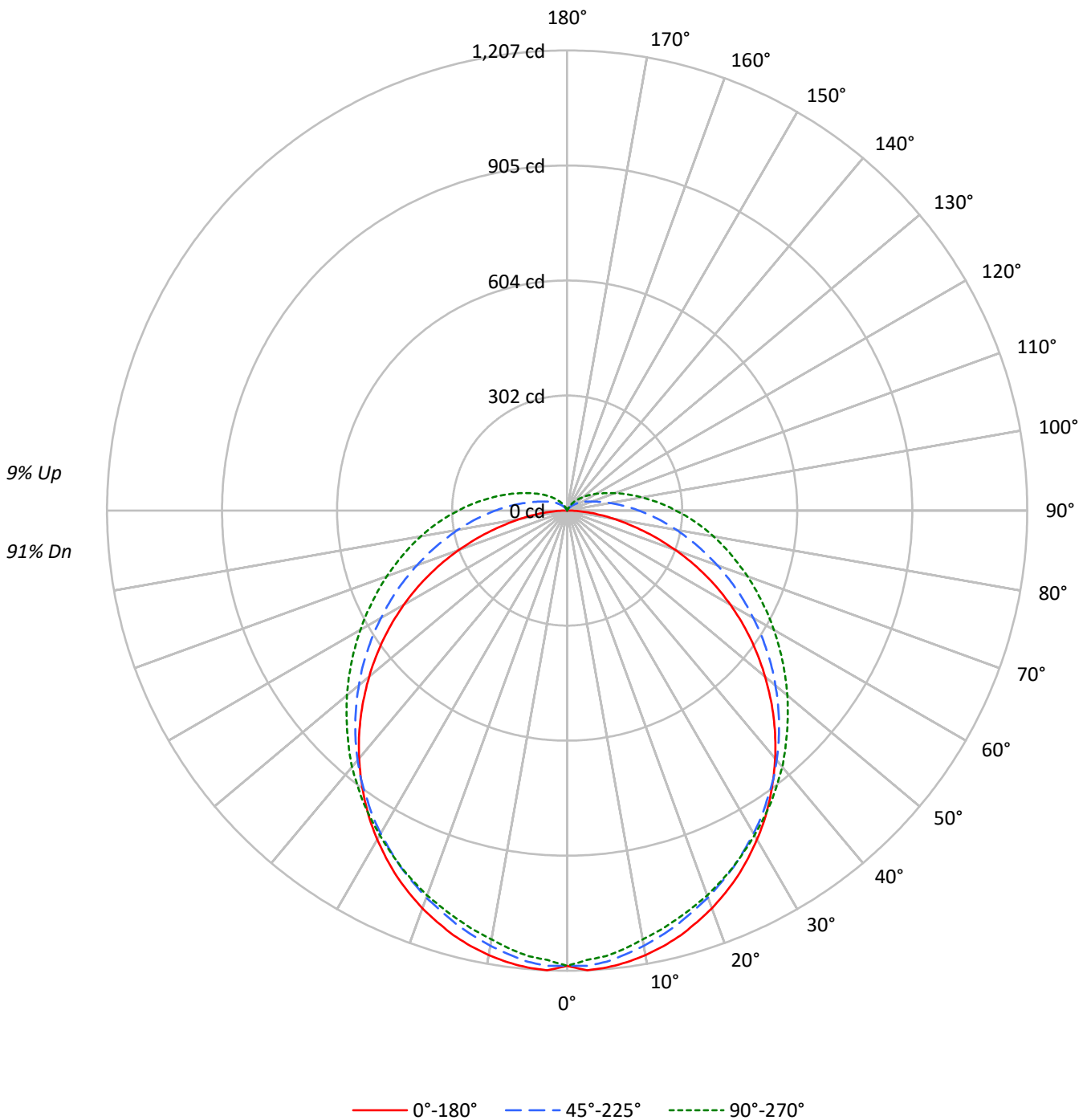
Lumens per Lamp: N/A
Luminaire Lumens: 4087.3 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.75' x H: 0.17')
CIE Type: Direct

Input Watts (W): 42.5
Input Voltage (V): 120.06
Input Current (A_{in}): 0.35515
Voltage Rise (V): NR
Power Factor: 0.9992
Total Harmonic Distortion (THDi): 8.08%
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	100	100	100	94	94	94	91
1	105	99	94	90	101	96	91	87	90	86	83	85	82	79	80	77	75	72
2	95	85	78	71	91	83	76	70	78	72	67	73	68	64	69	65	61	59
3	86	74	66	59	82	72	64	58	68	61	55	64	58	53	60	56	51	49
4	78	66	56	49	75	64	55	49	60	53	47	57	50	45	54	48	44	41
5	72	58	49	42	69	57	48	42	54	46	40	51	44	39	48	42	38	35
6	66	53	43	37	64	51	42	36	48	41	35	46	39	34	44	38	33	31
7	61	48	39	32	59	46	38	32	44	36	31	42	35	30	40	34	29	27
8	57	43	35	29	55	42	34	28	40	33	28	38	32	27	36	31	26	24
9	53	40	31	26	51	39	31	25	37	30	25	35	29	24	34	28	24	22
10	50	37	29	23	48	36	28	23	34	27	22	33	26	22	31	26	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9139	9139	9139
5°	9208	8860	8675
10°	9131	8491	8231
15°	9029	8145	7860
20°	8898	7814	7530
25°	8754	7506	7213
30°	8583	7206	6914
35°	8392	6906	6649
40°	8178	6622	6390
45°	7939	6323	6115
50°	7668	6013	5870
55°	7378	5709	5633
60°	7036	5400	5415
65°	6614	5107	5221
70°	6023	4809	5068
75°	5251	4546	4950
80°	4401	4333	4883
85°	3203	4186	4868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	2.7
10°-20°	316.8	7.8
20°-30°	476.0	11.6
30°-40°	575.1	14.1
40°-50°	605.6	14.8
50°-60°	570.1	13.9
60°-70°	481.4	11.8
70°-80°	360.8	8.8
80°-90°	240.1	5.9
90°-100°	148.7	3.6
100°-110°	90.9	2.2
110°-120°	54.5	1.3
120°-130°	31.5	0.8
130°-140°	15.8	0.4
140°-150°	6.2	0.2
150°-160°	1.4	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	905.0	22.1
0°-40°	1480.1	36.2
0°-60°	2655.8	65.0
0°-90°	3738.1	91.5
90°-120°	294.1	7.2
90°-150°	347.7	8.5
90°-180°	349.0	8.5
0°-180°	4087.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1203	1184	1188	1176	1173	114
15°	1153	1126	1123	1113	1110	325
25°	1058	1027	1032	1028	1031	487
35°	926	902	918	926	933	579
45°	766	757	786	805	816	591
55°	588	597	639	673	690	525
65°	400	428	491	542	563	395
75°	207	263	352	421	445	221
85°	55	132	236	310	337	60
90°	4	86	188	261	285	5
95°	0	56	147	216	240	0
105°	0	27	88	143	164	0
115°	0	15	55	93	108	0
125°	0	8	35	61	71	1
135°	1	3	19	37	43	1
145°	1	1	8	18	22	1
155°	1	1	1	5	7	0
165°	1	1	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°	1194	1194	1194	1194	1194
2.5°	1207	1190	1195	1188	1180
5°	1203	1184	1188	1176	1173
7.5°	1195	1175	1174	1163	1159
10°	1184	1162	1159	1146	1142
12.5°	1170	1145	1142	1128	1127
15°	1153	1126	1123	1113	1110
17.5°	1132	1104	1101	1093	1092
20°	1110	1081	1080	1072	1074
22.5°	1085	1055	1056	1050	1053
25°	1058	1027	1032	1028	1031
27.5°	1028	997	1005	1004	1007
30°	996	966	978	979	983
32.5°	963	935	950	953	958
35°	926	902	918	926	933
37.5°	888	866	888	897	905
40°	849	831	855	867	878
42.5°	808	795	821	836	847
45°	766	757	786	805	816
47.5°	722	717	750	772	785
50°	678	678	713	740	754
52.5°	633	638	677	707	722
55°	588	597	639	673	690
57.5°	542	555	602	640	658
60°	495	513	564	607	626
62.5°	448	471	527	575	595
65°	400	428	491	542	563
67.5°	351	386	454	511	533
70°	302	343	419	481	503
72.5°	254	303	385	450	473
75°	207	263	352	421	445
77.5°	164	225	320	392	417
80°	125	190	291	364	390
82.5°	87	159	263	337	363
85°	55	132	236	310	337
87.5°	29	108	211	285	311
90°	4	86	188	261	285
92.5°	1	69	167	238	263
95°	0	56	147	216	240
97.5°	0	45	130	196	219
100°	0	37	114	177	199
102.5°	0	31	100	159	181
105°	0	27	88	143	164
107.5°	0	23	78	128	148
110°	0	20	69	115	133



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	17	62	103	120
115°	0	15	55	93	108
117.5°	0	13	50	84	97
120°	0	11	44	75	88
122.5°	1	10	39	68	79
125°	0	8	35	61	71
127.5°	1	6	30	54	63
130°	1	5	26	48	56
132.5°	1	4	22	42	49
135°	1	3	19	37	43
137.5°	1	2	16	31	37
140°	1	1	13	26	32
142.5°	1	1	10	22	27
145°	1	1	8	18	22
147.5°	1	1	6	14	18
150°	1	1	4	11	14
152.5°	1	1	3	7	10
155°	1	1	1	5	7
157.5°	1	1	0	3	4
160°	1	1	0	1	1
162.5°	1	1	0	0	0
165°	1	1	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)