

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: P234505

Luminaire Tested: **4WSNLED-LD4-40SL-F-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P234505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-169-11)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4WSNLED-LD4-40SL-F-UNV-L835-CD1-U
Description: 4FT WSNLED WRAPAROUND
Light Source: (224) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

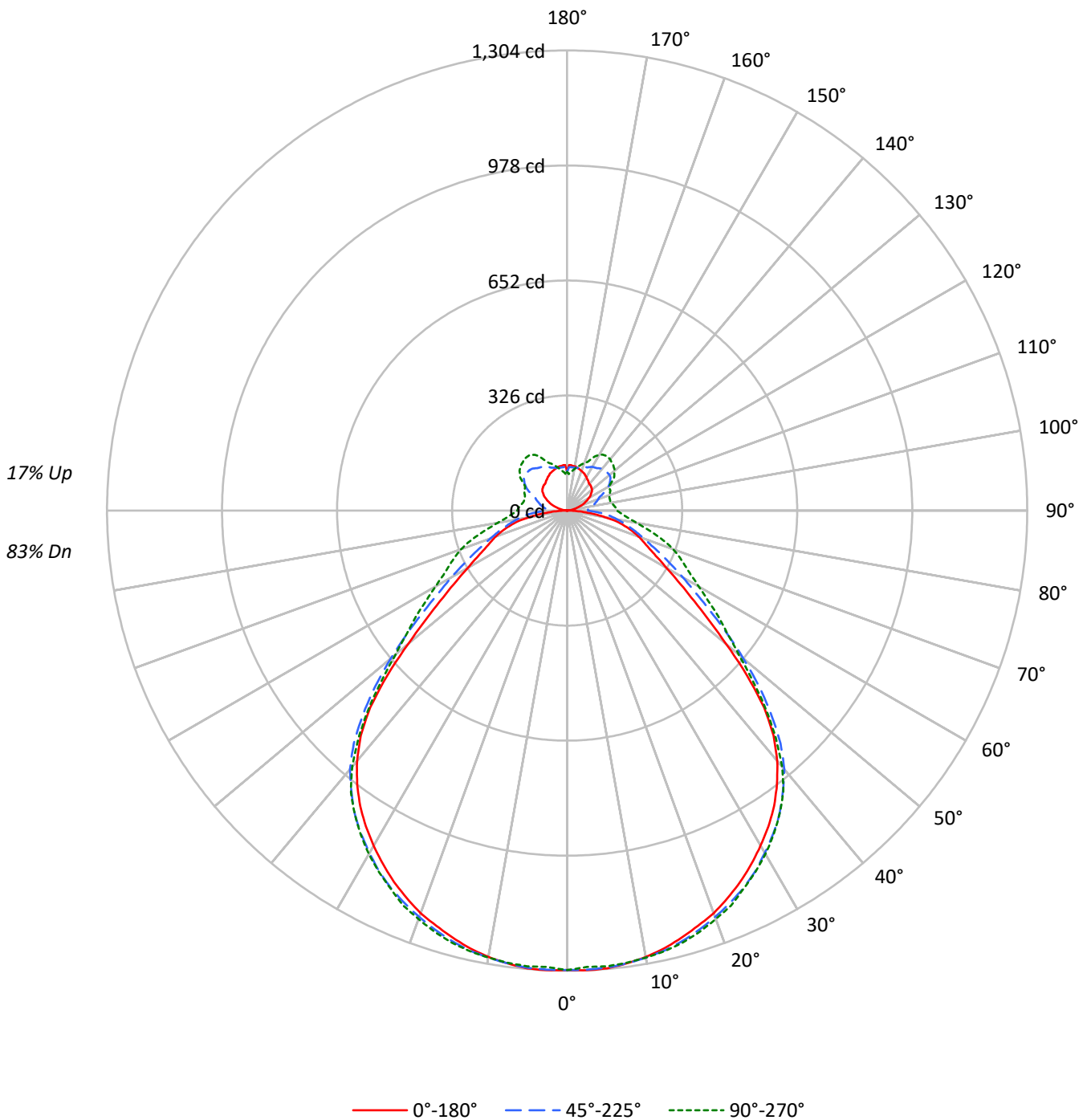
Lumens per Lamp: N/A
Luminaire Lumens: 4044.0 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 35.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
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	0
RCR																		
0	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	83
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	69
2	96	88	82	76	92	85	79	74	78	74	70	73	69	65	67	64	62	59
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50
4	81	69	61	55	77	67	59	53	62	56	51	58	53	48	54	50	46	43
5	74	62	54	47	71	60	52	46	56	49	44	52	47	42	49	44	40	38
6	69	56	48	42	66	54	46	41	51	44	39	48	42	37	44	40	36	33
7	64	51	43	37	61	49	42	36	46	40	35	43	38	33	41	36	32	30
8	59	47	38	33	57	45	38	32	42	36	31	40	34	30	38	32	29	27
9	56	43	35	30	53	41	34	29	39	33	28	37	31	27	35	30	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	29	25	32	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3504	3504	3504
5°	3508	3478	3463
10°	3491	3448	3439
15°	3462	3417	3415
20°	3437	3374	3373
25°	3398	3334	3318
30°	3347	3271	3257
35°	3286	3200	3170
40°	3170	3078	3013
45°	2912	2805	2696
50°	2371	2412	2312
55°	1926	1999	2081
60°	1659	1707	1906
65°	1543	1512	1848
70°	1561	1394	1869
75°	1586	1355	1819
80°	1469	1380	1811
85°	1069	1442	2066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	3.1
10°-20°	355.7	8.8
20°-30°	541.2	13.4
30°-40°	649.0	16.0
40°-50°	617.8	15.3
50°-60°	440.0	10.9
60°-70°	299.1	7.4
70°-80°	201.8	5.0
80°-90°	115.7	2.9
90°-100°	74.7	1.8
100°-110°	84.1	2.1
110°-120°	104.5	2.6
120°-130°	119.9	3.0
130°-140°	114.0	2.8
140°-150°	92.3	2.3
150°-160°	63.5	1.6
160°-170°	35.8	0.9
170°-180°	11.5	0.3
0°-30°	1020.4	25.2
0°-40°	1669.4	41.3
0°-60°	2727.2	67.4
0°-90°	3343.8	82.7
90°-120°	263.3	6.5
90°-150°	589.4	14.6
90°-180°	700.0	17.3
0°-180°	4044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1302	1302	1302	1302	1302	
5°	1302	1294	1300	1298	1296	124
15°	1253	1251	1263	1269	1267	354
25°	1161	1163	1181	1185	1183	535
35°	1022	1028	1050	1050	1050	637
45°	789	809	818	818	797	597
55°	429	472	493	497	523	392
65°	258	276	294	311	368	260
75°	170	143	184	219	256	177
85°	47	67	106	147	162	52
90°	0	29	59	112	141	3
95°	4	27	61	114	135	5
105°	27	41	82	114	125	29
115°	57	90	112	125	135	57
125°	82	110	149	161	162	74
135°	96	116	157	180	184	74
145°	104	116	147	180	190	65
155°	116	118	135	157	161	53
165°	123	123	125	127	131	35
175°	129	129	123	108	110	12
180°	110	110	110	110	110	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1302.1	1302.1	1302.1	1302.1	1302.1
2.5°	1304.1	1298.2	1302.1	1302.1	1294.3
5°	1302.1	1294.3	1300.1	1298.2	1296.2
7.5°	1294.3	1288.4	1294.3	1296.2	1292.3
10°	1284.5	1278.6	1286.4	1288.4	1286.4
12.5°	1270.8	1266.9	1276.6	1280.6	1278.6
15°	1253.1	1251.2	1262.9	1268.8	1266.9
17.5°	1233.6	1231.6	1245.3	1253.1	1251.2
20°	1214.0	1212.0	1225.7	1231.6	1231.6
22.5°	1188.5	1188.5	1204.2	1210.1	1212.0
25°	1161.1	1163.1	1180.7	1184.6	1182.7
27.5°	1129.8	1131.7	1153.3	1155.2	1155.2
30°	1096.5	1100.4	1120.0	1122.0	1123.9
32.5°	1061.3	1065.2	1086.7	1086.7	1088.7
35°	1022.1	1028.0	1049.5	1049.5	1049.5
37.5°	977.1	984.9	1004.5	1004.5	1006.4
40°	926.2	937.9	957.5	955.5	947.7
42.5°	865.5	881.1	894.8	892.9	875.2
45°	789.1	808.7	818.5	818.5	796.9
47.5°	691.2	720.6	738.2	730.3	712.7
50°	587.4	630.5	652.0	648.1	634.4
52.5°	499.3	548.3	569.8	567.8	571.7
55°	428.8	471.9	493.4	497.3	522.8
57.5°	372.0	411.2	428.8	440.6	471.9
60°	325.0	360.3	377.9	389.7	430.8
62.5°	287.8	315.2	332.9	346.6	395.5
65°	258.5	276.1	293.7	311.3	368.1
67.5°	235.0	238.9	258.5	283.9	344.6
70°	215.4	201.7	231.0	260.4	319.2
72.5°	193.8	170.3	207.6	236.9	289.8
75°	170.3	142.9	184.1	219.3	256.5
77.5°	144.9	119.4	164.5	199.7	225.2
80°	111.6	101.8	144.9	182.1	199.7
82.5°	78.3	84.2	125.3	166.4	178.2
85°	47.0	66.6	105.7	146.9	162.5
87.5°	21.5	49.0	80.3	127.3	150.8
90°	0.0	29.4	58.7	111.6	141.0
92.5°	2.0	29.4	58.7	113.6	139.0
95°	3.9	27.4	60.7	113.6	135.1
97.5°	7.8	27.4	66.6	111.6	131.2
100°	13.7	29.4	72.4	111.6	127.3
102.5°	19.6	31.3	78.3	113.6	125.3
105°	27.4	41.1	82.2	113.6	125.3
107.5°	35.2	54.8	88.1	115.5	125.3
110°	43.1	70.5	94.0	117.5	127.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	50.9	82.2	97.9	123.4	131.2
115°	56.8	90.1	111.6	125.3	135.1
117.5°	64.6	95.9	125.3	127.3	135.1
120°	70.5	101.8	135.1	135.1	137.1
122.5°	78.3	105.7	142.9	150.8	148.8
125°	82.2	109.7	148.8	160.6	162.5
127.5°	88.1	111.6	154.7	166.4	168.4
130°	92.0	113.6	156.6	172.3	176.2
132.5°	94.0	113.6	156.6	176.2	180.1
135°	95.9	115.5	156.6	180.1	184.1
137.5°	97.9	113.6	156.6	182.1	186.0
140°	97.9	113.6	154.7	182.1	189.9
142.5°	99.9	113.6	150.8	182.1	189.9
145°	103.8	115.5	146.9	180.1	189.9
147.5°	105.7	115.5	144.9	176.2	188.0
150°	109.7	115.5	142.9	170.3	182.1
152.5°	111.6	115.5	139.0	164.5	174.3
155°	115.5	117.5	135.1	156.6	160.6
157.5°	117.5	117.5	133.1	148.8	148.8
160°	119.4	119.4	129.2	141.0	142.9
162.5°	121.4	121.4	127.3	133.1	137.1
165°	123.4	123.4	125.3	127.3	131.2
167.5°	125.3	125.3	123.4	119.4	125.3
170°	127.3	127.3	123.4	113.6	119.4
172.5°	127.3	129.2	123.4	109.7	113.6
175°	129.2	129.2	123.4	107.7	109.7
177.5°	129.2	129.2	123.4	103.8	103.8
180°	109.7	109.7	109.7	109.7	109.7

(END OF REPORT)