

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: P235487

Luminaire Tested: **4WSNLED-LD4-44SL-F-UNV-L830-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P235487
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-LD4-44SL-F-UNV-L830-CD1-U
Description: 4FT WSNLED WRAPAROUND
Light Source: (224) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

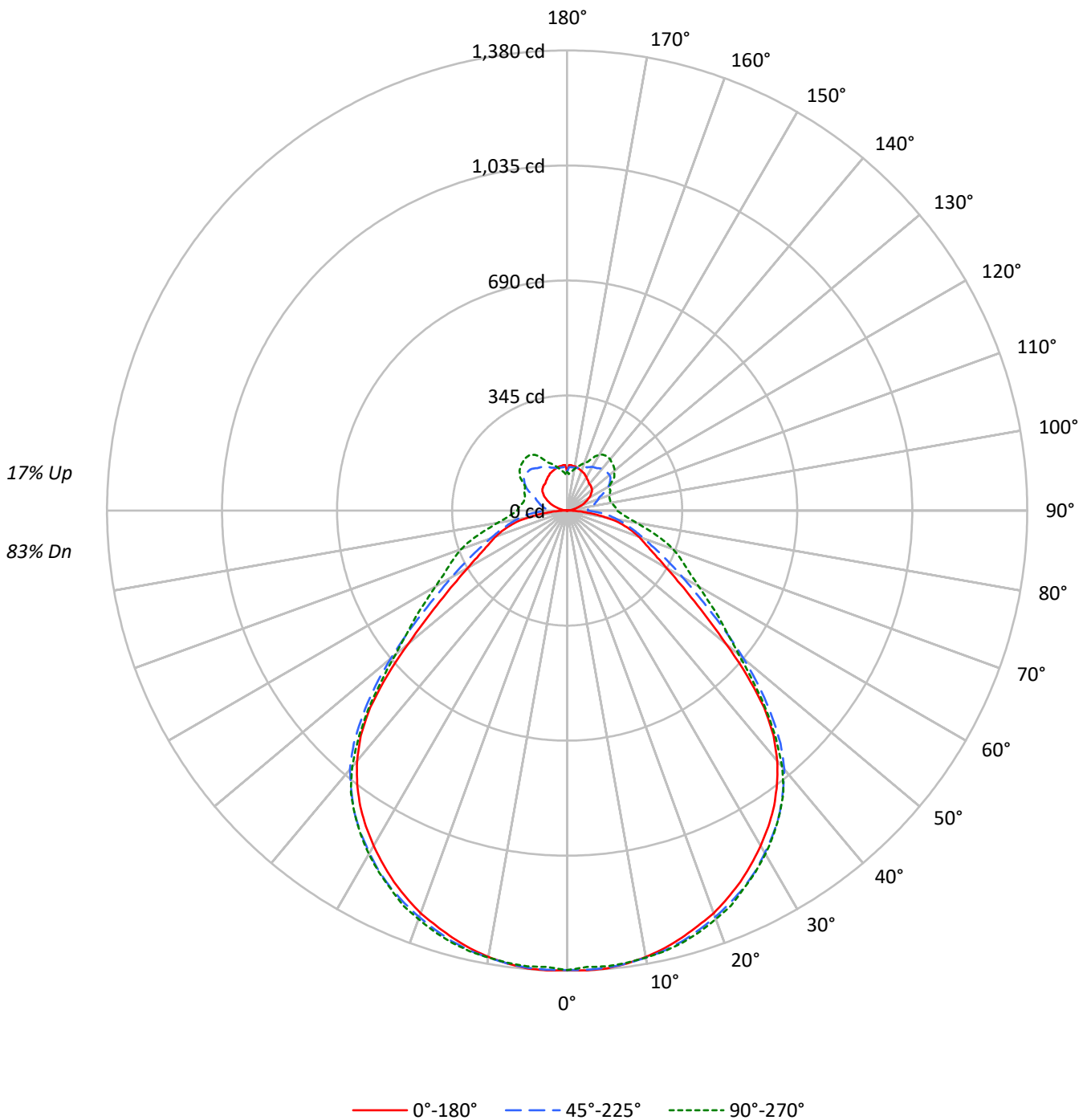
Lumens per Lamp: N/A
Luminaire Lumens: 4280.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 39.7
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

TEST NUMBER: P235487

CATALOG NUMBER: 4WSNLED-LD4-44SL-F-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P235487

CATALOG NUMBER: 4WSNLED-LD4-44SL-F-UNV-L830-CD1-U

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°	3708	3708	3708
5°	3712	3681	3666
10°	3694	3649	3640
15°	3664	3617	3614
20°	3638	3571	3570
25°	3596	3528	3512
30°	3542	3462	3447
35°	3477	3387	3355
40°	3355	3258	3189
45°	3082	2968	2853
50°	2509	2553	2446
55°	2038	2116	2203
60°	1756	1807	2017
65°	1632	1600	1956
70°	1652	1476	1978
75°	1679	1434	1925
80°	1555	1461	1917
85°	1131	1527	2187



TEST NUMBER: P235487

CATALOG NUMBER: 4WSNLED-LD4-44SL-F-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	3.1
10°-20°	376.5	8.8
20°-30°	572.8	13.4
30°-40°	686.9	16.0
40°-50°	653.9	15.3
50°-60°	465.6	10.9
60°-70°	316.5	7.4
70°-80°	213.6	5.0
80°-90°	122.4	2.9
90°-100°	79.1	1.8
100°-110°	89.0	2.1
110°-120°	110.6	2.6
120°-130°	126.9	3.0
130°-140°	120.6	2.8
140°-150°	97.7	2.3
150°-160°	67.2	1.6
160°-170°	37.9	0.9
170°-180°	12.1	0.3
0°-30°	1080.0	25.2
0°-40°	1766.9	41.3
0°-60°	2886.4	67.4
0°-90°	3539.0	82.7
90°-120°	278.7	6.5
90°-150°	623.8	14.6
90°-180°	741.0	17.3
0°-180°	4280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1378	1370	1376	1374	1372	131
15°	1326	1324	1337	1343	1341	374
25°	1229	1231	1250	1254	1252	566
35°	1082	1088	1111	1111	1111	675
45°	835	856	866	866	843	632
55°	454	499	522	526	553	415
65°	274	292	311	330	390	275
75°	180	151	195	232	272	188
85°	50	70	112	155	172	55
90°	0	31	62	118	149	3
95°	4	29	64	120	143	6
105°	29	44	87	120	133	31
115°	60	95	118	133	143	60
125°	87	116	158	170	172	78
135°	102	122	166	191	195	78
145°	110	122	155	191	201	69
155°	122	124	143	166	170	56
165°	131	131	133	135	139	37
175°	137	137	131	114	116	13
180°	116	116	116	116	116	



TEST NUMBER: P235487

CATALOG NUMBER: 4WSNLED-LD4-44SL-F-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1378.1	1378.1	1378.1	1378.1	1378.1
2.5°	1380.2	1373.9	1378.1	1378.1	1369.8
5°	1378.1	1369.8	1376.0	1373.9	1371.9
7.5°	1369.8	1363.6	1369.8	1371.9	1367.7
10°	1359.4	1353.2	1361.5	1363.6	1361.5
12.5°	1344.9	1340.8	1351.1	1355.3	1353.2
15°	1326.3	1324.2	1336.6	1342.9	1340.8
17.5°	1305.6	1303.5	1318.0	1326.3	1324.2
20°	1284.8	1282.8	1297.3	1303.5	1303.5
22.5°	1257.9	1257.9	1274.5	1280.7	1282.8
25°	1228.9	1231.0	1249.6	1253.7	1251.7
27.5°	1195.7	1197.8	1220.6	1222.7	1222.7
30°	1160.5	1164.6	1185.4	1187.4	1189.5
32.5°	1123.2	1127.3	1150.1	1150.1	1152.2
35°	1081.7	1088.0	1110.8	1110.8	1110.8
37.5°	1034.1	1042.4	1063.1	1063.1	1065.2
40°	980.2	992.6	1013.4	1011.3	1003.0
42.5°	916.0	932.5	947.0	945.0	926.3
45°	835.1	855.9	866.2	866.2	843.4
47.5°	731.5	762.6	781.3	773.0	754.3
50°	621.7	667.3	690.1	685.9	671.4
52.5°	528.4	580.2	603.0	601.0	605.1
55°	453.8	499.4	522.2	526.4	553.3
57.5°	393.7	435.2	453.8	466.3	499.4
60°	344.0	381.3	400.0	412.4	455.9
62.5°	304.6	333.6	352.3	366.8	418.6
65°	273.5	292.2	310.8	329.5	389.6
67.5°	248.7	252.8	273.5	300.5	364.7
70°	228.0	213.4	244.5	275.6	337.8
72.5°	205.2	180.3	219.7	250.7	306.7
75°	180.3	151.3	194.8	232.1	271.5
77.5°	153.4	126.4	174.1	211.4	238.3
80°	118.1	107.8	153.4	192.7	211.4
82.5°	82.9	89.1	132.6	176.1	188.6
85°	49.7	70.5	111.9	155.4	172.0
87.5°	22.8	51.8	85.0	134.7	159.6
90°	0.0	31.1	62.2	118.1	149.2
92.5°	2.1	31.1	62.2	120.2	147.1
95°	4.1	29.0	64.2	120.2	143.0
97.5°	8.3	29.0	70.5	118.1	138.8
100°	14.5	31.1	76.7	118.1	134.7
102.5°	20.7	33.2	82.9	120.2	132.6
105°	29.0	43.5	87.0	120.2	132.6
107.5°	37.3	58.0	93.3	122.3	132.6
110°	45.6	74.6	99.5	124.3	134.7



TEST NUMBER: P235487

CATALOG NUMBER: 4WSNLED-LD4-44SL-F-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.9	87.0	103.6	130.6	138.8
115°	60.1	95.3	118.1	132.6	143.0
117.5°	68.4	101.5	132.6	134.7	143.0
120°	74.6	107.8	143.0	143.0	145.1
122.5°	82.9	111.9	151.3	159.6	157.5
125°	87.0	116.0	157.5	169.9	172.0
127.5°	93.3	118.1	163.7	176.1	178.2
130°	97.4	120.2	165.8	182.4	186.5
132.5°	99.5	120.2	165.8	186.5	190.7
135°	101.5	122.3	165.8	190.7	194.8
137.5°	103.6	120.2	165.8	192.7	196.9
140°	103.6	120.2	163.7	192.7	201.0
142.5°	105.7	120.2	159.6	192.7	201.0
145°	109.8	122.3	155.4	190.7	201.0
147.5°	111.9	122.3	153.4	186.5	198.9
150°	116.0	122.3	151.3	180.3	192.7
152.5°	118.1	122.3	147.1	174.1	184.4
155°	122.3	124.3	143.0	165.8	169.9
157.5°	124.3	124.3	140.9	157.5	157.5
160°	126.4	126.4	136.8	149.2	151.3
162.5°	128.5	128.5	134.7	140.9	145.1
165°	130.6	130.6	132.6	134.7	138.8
167.5°	132.6	132.6	130.6	126.4	132.6
170°	134.7	134.7	130.6	120.2	126.4
172.5°	134.7	136.8	130.6	116.0	120.2
175°	136.8	136.8	130.6	114.0	116.0
177.5°	136.8	136.8	130.6	109.8	109.8
180°	116.0	116.0	116.0	116.0	116.0

(END OF REPORT)