

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: P#

Luminaire Tested: **4SNLED-LD5-30SL-SLN-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-30SL-SLN-UNV-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2980.0 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

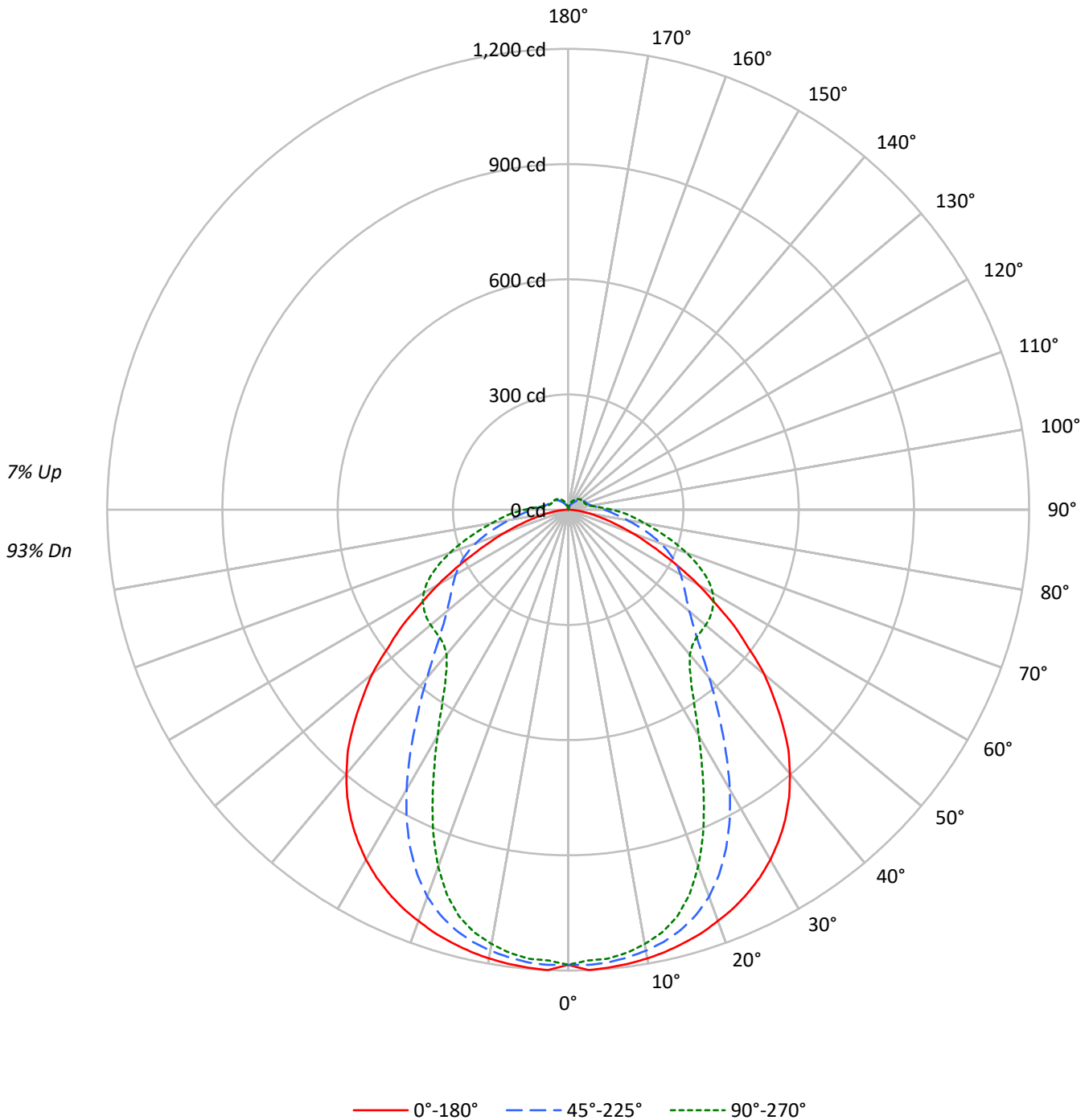
Input Watts (W): 21
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-SLN-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-SLN-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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9576	9576	9576
5°	9686	9364	9217
10°	9683	9105	8838
15°	9686	8801	8334
20°	9690	8347	7485
25°	9694	7648	6338
30°	9648	6730	5213
35°	9511	5726	4369
40°	9232	4849	3949
45°	8743	4214	3919
50°	8077	3853	4057
55°	7112	3703	4199
60°	6001	3650	4257
65°	4826	3570	4124
70°	3877	3386	3803
75°	2922	3063	3375
80°	2158	2751	3003
85°	1441	2596	2762



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-SLN-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	3.8
10°-20°	316.9	10.6
20°-30°	443.0	14.9
30°-40°	459.5	15.4
40°-50°	424.5	14.2
50°-60°	379.0	12.7
60°-70°	307.1	10.3
70°-80°	204.3	6.9
80°-90°	117.0	3.9
90°-100°	64.7	2.2
100°-110°	43.8	1.5
110°-120°	36.5	1.2
120°-130°	29.7	1.0
130°-140°	21.4	0.7
140°-150°	12.9	0.4
150°-160°	6.2	0.2
160°-170°	1.6	0.1
170°-180°	0.0	0.0
0°-30°	871.9	29.3
0°-40°	1331.4	44.7
0°-60°	2134.8	71.6
0°-90°	2763.2	92.7
90°-120°	145.0	4.9
90°-150°	209.0	7.0
90°-180°	217.0	7.3
0°-180°	2980.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1197	1177	1183	1175	1174	114
15°	1168	1143	1133	1107	1096	330
25°	1103	1054	973	871	835	508
35°	985	877	697	586	559	615
45°	789	625	475	458	472	607
55°	527	399	371	431	458	469
65°	269	241	302	370	389	272
75°	104	131	203	249	260	115
85°	21	61	120	154	158	24
90°	1	43	95	114	113	2
95°	1	36	75	80	78	1
105°	0	31	54	52	50	1
115°	0	28	48	47	46	0
125°	0	24	42	44	43	1
135°	1	18	34	39	39	1
145°	1	11	23	30	32	1
155°	1	7	14	19	23	0
165°	1	4	7	9	12	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-SLN-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1185.0	1185.0	1185.0	1185.0	1185.0
2.5°	1199.9	1180.3	1186.5	1181.4	1174.7
5°	1197.3	1177.2	1183.4	1175.2	1173.6
7.5°	1192.7	1172.6	1176.2	1166.4	1163.9
10°	1186.5	1165.4	1165.9	1152.0	1148.4
12.5°	1178.3	1155.1	1152.0	1133.0	1127.8
15°	1167.5	1142.7	1133.0	1107.2	1096.4
17.5°	1155.6	1126.8	1106.7	1067.0	1050.0
20°	1139.6	1107.2	1072.2	1011.9	989.3
22.5°	1123.7	1083.5	1027.4	947.0	916.7
25°	1103.1	1054.2	972.8	870.8	835.3
27.5°	1079.9	1019.7	910.0	792.6	754.4
30°	1052.6	977.9	841.0	715.8	679.8
32.5°	1020.7	931.1	768.3	646.8	613.3
35°	985.2	877.0	697.3	585.5	559.3
37.5°	944.5	817.8	631.4	536.1	519.1
40°	898.1	753.4	570.6	498.0	492.3
42.5°	848.2	690.6	518.6	473.3	478.4
45°	788.9	625.2	474.8	457.8	471.7
47.5°	726.6	561.3	439.3	449.1	469.1
50°	666.4	502.1	411.5	443.4	467.1
52.5°	591.7	449.1	389.3	438.2	464.0
55°	527.3	398.6	370.8	431.0	457.8
57.5°	453.2	353.3	354.3	421.8	448.5
60°	391.4	312.1	338.3	408.9	434.6
62.5°	328.6	275.0	320.8	391.9	415.1
65°	269.3	241.0	301.8	369.8	389.3
67.5°	219.9	210.1	280.1	343.0	359.5
70°	178.2	181.8	256.5	313.1	327.0
72.5°	137.0	155.5	230.7	281.2	293.0
75°	104.5	130.8	203.4	249.2	259.5
77.5°	77.2	109.2	178.7	220.4	229.2
80°	54.6	90.1	155.5	195.2	201.9
82.5°	36.6	74.2	136.5	172.5	178.7
85°	21.1	60.8	120.0	153.5	157.6
87.5°	8.8	50.5	106.6	133.9	136.0
90°	1.0	42.7	94.8	114.3	113.3
92.5°	1.0	38.6	84.5	95.8	93.2
95°	1.0	36.0	75.2	80.3	77.8
97.5°	1.0	34.5	66.9	69.0	66.4
100°	0.5	33.5	61.3	61.3	58.7
102.5°	0.5	32.4	57.2	55.6	53.6
105°	0.5	31.4	54.1	52.5	50.0
107.5°	0.5	30.9	52.0	50.5	47.9
110°	0.5	29.9	50.5	48.9	46.9



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-SLN-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	29.4	49.4	48.4	45.8
115°	0.5	28.3	47.9	47.4	45.8
117.5°	0.5	27.3	46.9	46.9	45.3
120°	0.5	26.3	45.3	46.3	44.8
122.5°	0.5	25.2	43.8	45.3	43.8
125°	0.5	24.2	42.2	44.3	43.3
127.5°	1.0	22.7	40.2	43.3	42.2
130°	0.5	21.1	38.1	42.2	41.7
132.5°	1.0	19.6	36.0	40.7	40.7
135°	1.0	18.0	33.5	39.1	39.1
137.5°	1.0	16.0	30.9	37.1	37.6
140°	1.0	14.4	28.3	35.0	36.0
142.5°	1.0	12.9	25.7	33.0	34.5
145°	1.0	11.3	23.2	30.4	32.4
147.5°	1.0	10.3	20.6	27.3	30.4
150°	1.0	8.8	18.5	24.7	27.8
152.5°	1.0	7.7	16.5	22.1	25.7
155°	1.0	7.2	14.4	19.1	23.2
157.5°	1.0	6.2	12.4	16.5	20.6
160°	1.0	5.1	10.3	14.4	17.5
162.5°	1.0	4.6	8.8	11.8	15.4
165°	1.0	4.1	7.2	9.3	12.4
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)