

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: P290096

Luminaire Tested: **4SSRK-LN-30-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-LN-30-L830-CD1-U
Description: 3000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3053.5 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

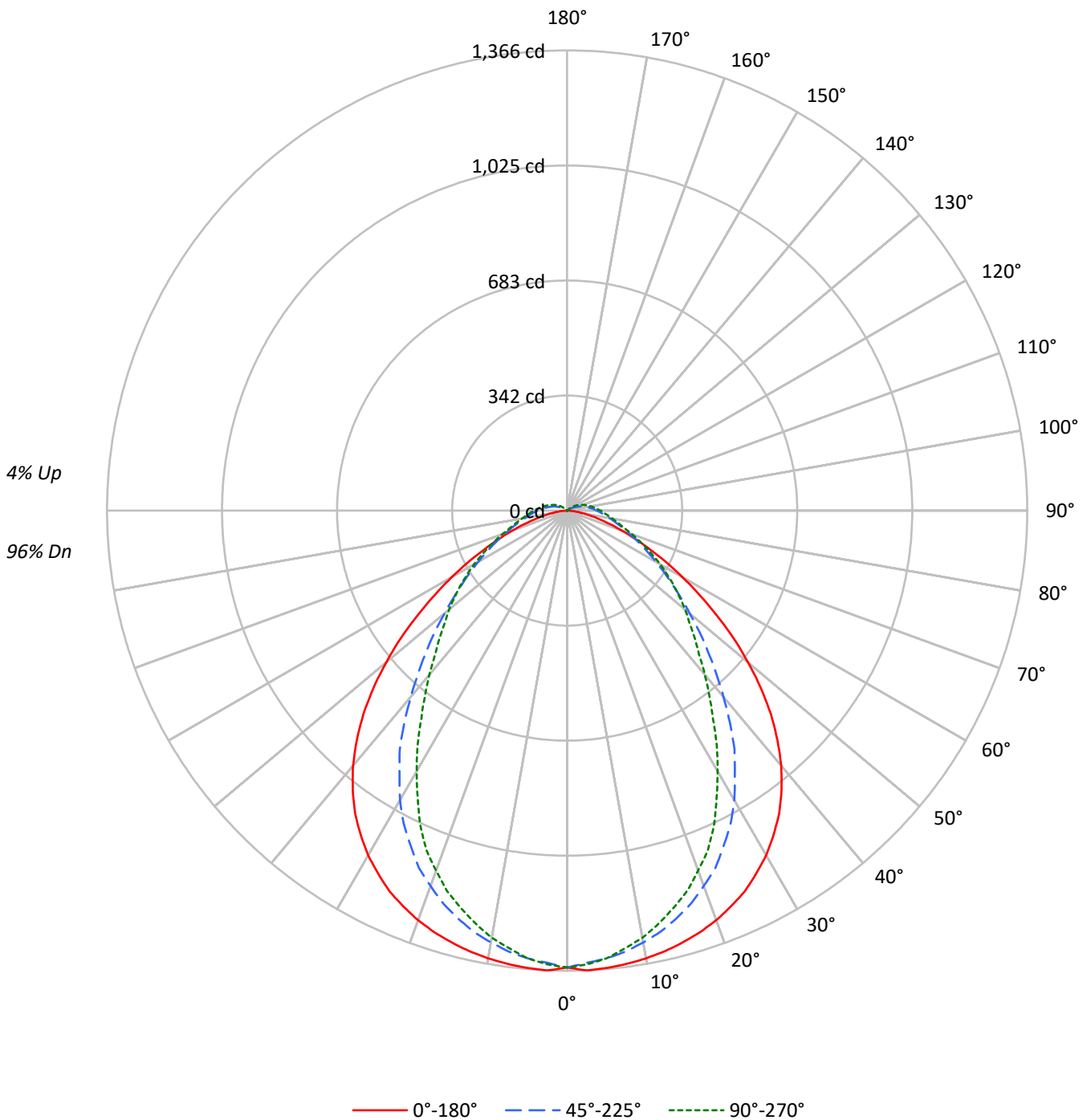
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	41
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	36
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	33
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	87600	87600	87600
5°	88029	69226	64102
10°	87860	56766	49508
15°	87739	47445	39391
20°	87598	39946	31827
25°	87181	33570	25641
30°	86039	27933	20125
35°	84045	22745	15665
40°	80530	17908	12308
45°	75002	13994	9780
50°	67033	10818	7965
55°	57515	8418	6470
60°	47634	6604	5202
65°	37680	5196	4108
70°	29091	4113	3230
75°	21401	3341	2571
80°	15011	2756	2131
85°	8634	2324	1818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	4.2
10°-20°	356.6	11.7
20°-30°	513.9	16.8
30°-40°	556.7	18.2
40°-50°	493.1	16.1
50°-60°	375.2	12.3
60°-70°	250.0	8.2
70°-80°	154.4	5.1
80°-90°	96.7	3.2
90°-100°	63.6	2.1
100°-110°	39.0	1.3
110°-120°	20.1	0.7
120°-130°	6.6	0.2
130°-140°	0.4	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	997.9	32.7
0°-40°	1554.5	50.9
0°-60°	2422.8	79.3
0°-90°	2923.9	95.8
90°-120°	122.6	4.0
90°-150°	129.6	4.2
90°-180°	130.0	4.3
0°-180°	3053.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1356	1356	1356	1356	1356	
5°	1363	1354	1335	1340	1335	130
15°	1327	1302	1253	1236	1221	375
25°	1247	1189	1099	1052	1031	574
35°	1097	994	866	784	755	684
45°	855	722	591	546	535	656
55°	541	442	380	385	386	486
65°	269	236	242	256	258	271
75°	99	121	156	167	164	110
85°	17	62	106	116	115	21
90°	1	45	88	99	98	1
95°	2	32	73	84	84	1
105°	1	13	46	58	60	1
115°	1	1	23	36	40	1
125°	1	1	1	16	20	1
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	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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CATALOG NUMBER: 4SSRK-LN-30-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1356.4	1356.4	1356.4	1356.4	1356.4
2.5°	1366.4	1358.9	1343.5	1352.4	1348.1
5°	1362.8	1354.2	1334.8	1339.9	1334.8
7.5°	1357.1	1346.3	1320.5	1322.6	1310.8
10°	1349.6	1335.2	1301.8	1298.2	1287.4
12.5°	1339.9	1319.7	1280.6	1266.2	1255.8
15°	1326.9	1301.8	1253.0	1236.1	1220.6
17.5°	1312.2	1279.9	1223.1	1202.7	1184.4
20°	1293.9	1253.3	1185.8	1157.4	1137.3
22.5°	1271.6	1224.2	1148.8	1107.5	1091.4
25°	1247.2	1188.7	1098.9	1051.8	1031.0
27.5°	1215.2	1149.5	1049.7	990.8	961.0
30°	1181.5	1103.2	992.6	924.7	893.1
32.5°	1140.9	1052.6	926.5	854.3	826.3
35°	1097.1	994.4	865.8	784.3	755.2
37.5°	1045.4	931.5	793.6	718.9	693.5
40°	988.6	863.3	721.8	656.1	636.0
42.5°	924.0	794.0	654.3	597.6	580.3
45°	855.4	721.5	591.1	546.2	535.4
47.5°	780.7	648.9	531.8	499.9	492.0
50°	700.3	576.4	474.4	456.8	457.2
52.5°	623.8	507.8	425.6	420.9	419.8
55°	541.2	441.7	379.9	384.6	385.7
57.5°	466.5	380.3	341.2	349.8	350.9
60°	395.4	325.4	304.2	317.5	319.3
62.5°	330.4	278.3	272.6	286.2	285.9
65°	268.6	235.6	242.4	256.4	257.5
67.5°	216.2	200.7	217.3	229.5	228.8
70°	171.7	169.5	192.8	205.8	205.1
72.5°	133.6	143.3	173.8	184.9	182.1
75°	99.1	120.7	156.2	166.6	164.1
77.5°	72.9	102.0	140.8	150.8	149.0
80°	49.9	86.5	127.5	137.9	135.7
82.5°	32.0	73.6	116.0	126.0	124.6
85°	17.2	62.1	105.6	116.4	114.6
87.5°	6.5	52.8	96.2	107.0	106.3
90°	0.7	45.2	88.0	99.1	98.4
92.5°	1.1	38.4	80.1	91.6	91.6
95°	1.8	32.0	72.9	84.4	84.0
97.5°	1.4	26.9	65.0	77.6	77.6
100°	1.4	22.3	57.8	70.4	71.1
102.5°	1.4	17.6	51.7	63.9	65.4
105°	1.1	12.6	45.6	58.2	59.6
107.5°	1.1	7.2	39.5	52.8	54.6
110°	1.1	1.8	34.1	47.0	49.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	1.1	28.7	41.7	43.8
115°	1.1	1.1	23.3	36.3	39.5
117.5°	0.7	0.7	17.2	31.6	34.5
120°	0.7	0.7	10.8	26.6	29.4
122.5°	0.7	0.7	4.7	21.2	25.1
125°	0.7	0.7	0.7	15.8	19.8
127.5°	0.7	0.7	0.4	9.3	14.0
130°	0.7	0.7	0.4	3.6	8.6
132.5°	0.7	0.7	0.4	0.4	2.5
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
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)