

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: P290097

Luminaire Tested: **4SSRK-LN-30-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290097
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-L835-CD1-U
Description: 3000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3106.2 lumens
Efficiency: N/A
Efficacy: 152.3 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

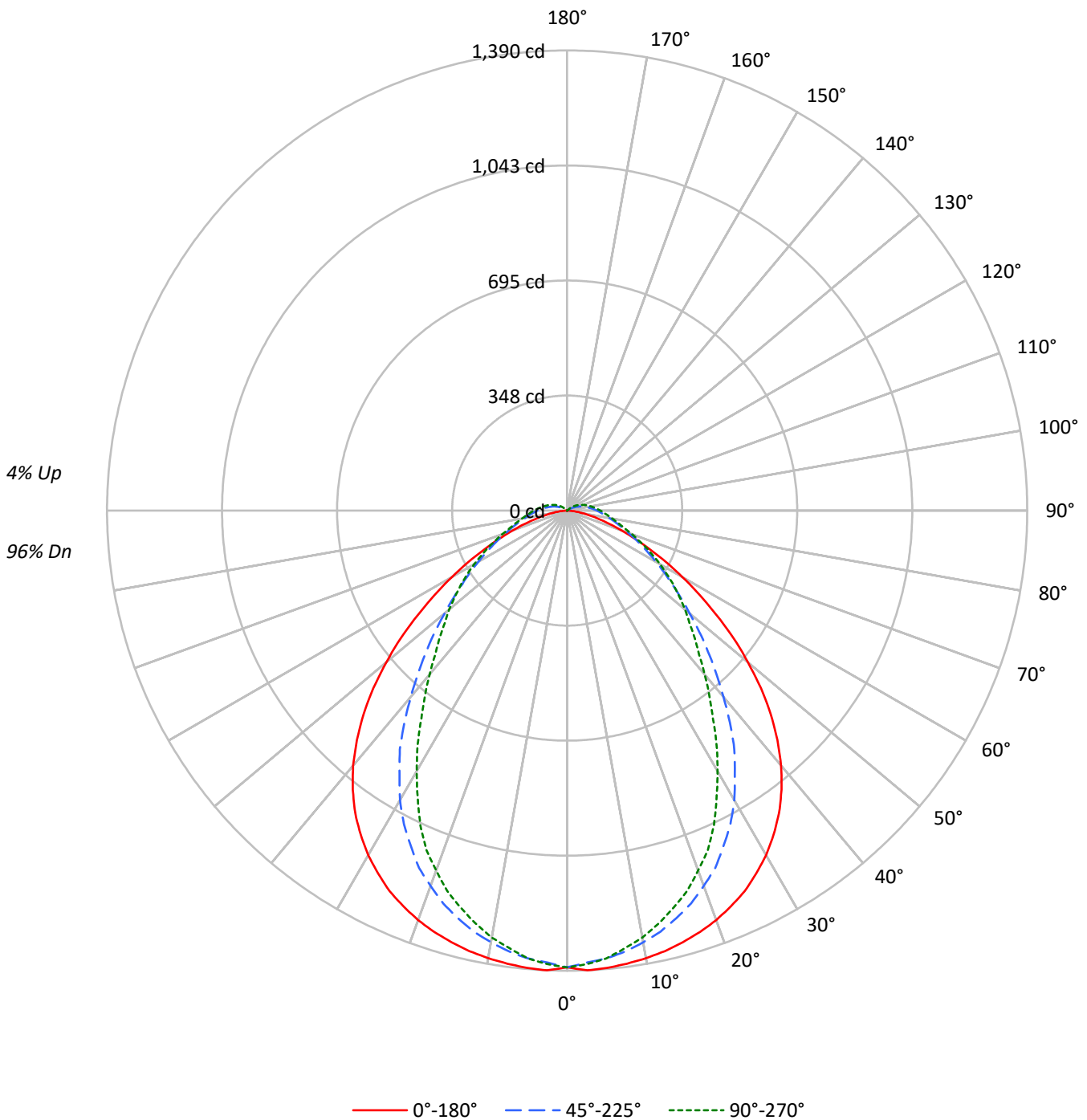
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290097

CATALOG NUMBER: 4SSRK-LN-30-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P290097

CATALOG NUMBER: 4SSRK-LN-30-L835-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	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°	89112	89112	89112
5°	89553	70424	65211
10°	89371	57742	50362
15°	89253	48263	40072
20°	89108	40637	32376
25°	88684	34147	26084
30°	87525	28414	20472
35°	85493	23139	15935
40°	81923	18218	12521
45°	76300	14236	9950
50°	68191	11005	8101
55°	58503	8564	6580
60°	48454	6717	5292
65°	38339	5286	4179
70°	29583	4185	3285
75°	21768	3399	2615
80°	15282	2803	2169
85°	8784	2364	1848



TEST NUMBER: P290097

CATALOG NUMBER: 4SSRK-LN-30-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	4.2
10°-20°	362.7	11.7
20°-30°	522.8	16.8
30°-40°	566.3	18.2
40°-50°	501.6	16.1
50°-60°	381.6	12.3
60°-70°	254.3	8.2
70°-80°	157.1	5.1
80°-90°	98.4	3.2
90°-100°	64.7	2.1
100°-110°	39.6	1.3
110°-120°	20.4	0.7
120°-130°	6.7	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°	1015.1	32.7
0°-40°	1581.4	50.9
0°-60°	2464.5	79.3
0°-90°	2974.3	95.8
90°-120°	124.7	4.0
90°-150°	131.9	4.2
90°-180°	132.0	4.2
0°-180°	3106.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1380	1380	1380	1380	1380	
5°	1386	1378	1358	1363	1358	132
15°	1350	1324	1275	1257	1242	381
25°	1269	1209	1118	1070	1049	584
35°	1116	1012	881	798	768	696
45°	870	734	601	556	545	667
55°	550	449	386	391	392	495
65°	273	240	247	261	262	276
75°	101	123	159	170	167	112
85°	18	63	107	118	116	21
90°	1	46	90	101	100	1
95°	2	32	74	86	86	1
105°	1	13	46	59	61	1
115°	1	1	24	37	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



TEST NUMBER: P290097

CATALOG NUMBER: 4SSRK-LN-30-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1379.8	1379.8	1379.8	1379.8	1379.8
2.5°	1390.0	1382.3	1366.6	1375.8	1371.4
5°	1386.4	1377.6	1357.9	1363.0	1357.9
7.5°	1380.5	1369.5	1343.2	1345.4	1333.4
10°	1372.8	1358.2	1324.2	1320.6	1309.6
12.5°	1363.0	1342.5	1302.7	1288.1	1277.5
15°	1349.8	1324.2	1274.6	1257.4	1241.7
17.5°	1334.8	1302.0	1244.2	1223.4	1204.8
20°	1316.2	1274.9	1206.3	1177.4	1156.9
22.5°	1293.6	1245.3	1168.6	1126.6	1110.2
25°	1268.7	1209.2	1117.8	1070.0	1048.8
27.5°	1236.2	1169.4	1067.8	1007.9	977.6
30°	1201.9	1122.2	1009.7	940.7	908.5
32.5°	1160.6	1070.7	942.5	869.1	840.6
35°	1116.0	1011.5	880.8	797.8	768.2
37.5°	1063.4	947.6	807.3	731.4	705.4
40°	1005.7	878.2	734.3	667.4	647.0
42.5°	939.9	807.7	665.6	607.9	590.3
45°	870.2	733.9	601.3	555.6	544.7
47.5°	794.2	660.1	541.0	508.5	500.5
50°	712.4	586.3	482.6	464.7	465.0
52.5°	634.5	516.5	432.9	428.1	427.0
55°	550.5	449.3	386.5	391.2	392.3
57.5°	474.5	386.9	347.0	355.8	356.9
60°	402.2	331.0	309.4	322.9	324.8
62.5°	336.1	283.1	277.3	291.2	290.8
65°	273.3	239.6	246.6	260.8	261.9
67.5°	219.9	204.2	221.0	233.4	232.7
70°	174.6	172.4	196.2	209.3	208.6
72.5°	135.9	145.8	176.8	188.1	185.2
75°	100.8	122.7	158.9	169.5	166.9
77.5°	74.2	103.7	143.2	153.4	151.6
80°	50.8	88.0	129.7	140.3	138.1
82.5°	32.5	74.9	118.0	128.2	126.8
85°	17.5	63.2	107.4	118.4	116.5
87.5°	6.6	53.7	97.9	108.9	108.1
90°	0.7	46.0	89.5	100.8	100.1
92.5°	1.1	39.1	81.5	93.2	93.2
95°	1.8	32.5	74.2	85.8	85.5
97.5°	1.5	27.4	66.1	78.9	78.9
100°	1.5	22.6	58.8	71.6	72.3
102.5°	1.5	17.9	52.6	65.0	66.5
105°	1.1	12.8	46.4	59.2	60.6
107.5°	1.1	7.3	40.2	53.7	55.5
110°	1.1	1.8	34.7	47.9	50.0



TEST NUMBER: P290097

CATALOG NUMBER: 4SSRK-LN-30-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	1.1	29.2	42.4	44.6
115°	1.1	1.1	23.7	36.9	40.2
117.5°	0.7	0.7	17.5	32.1	35.1
120°	0.7	0.7	11.0	27.0	30.0
122.5°	0.7	0.7	4.7	21.6	25.6
125°	0.7	0.7	0.7	16.1	20.1
127.5°	0.7	0.7	0.4	9.5	14.2
130°	0.7	0.7	0.4	3.7	8.8
132.5°	0.7	0.7	0.4	0.4	2.6
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)