

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: P290296

Luminaire Tested: **4SSRK-SLC-80-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-16)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-SLC-80-L830-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8654.8 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

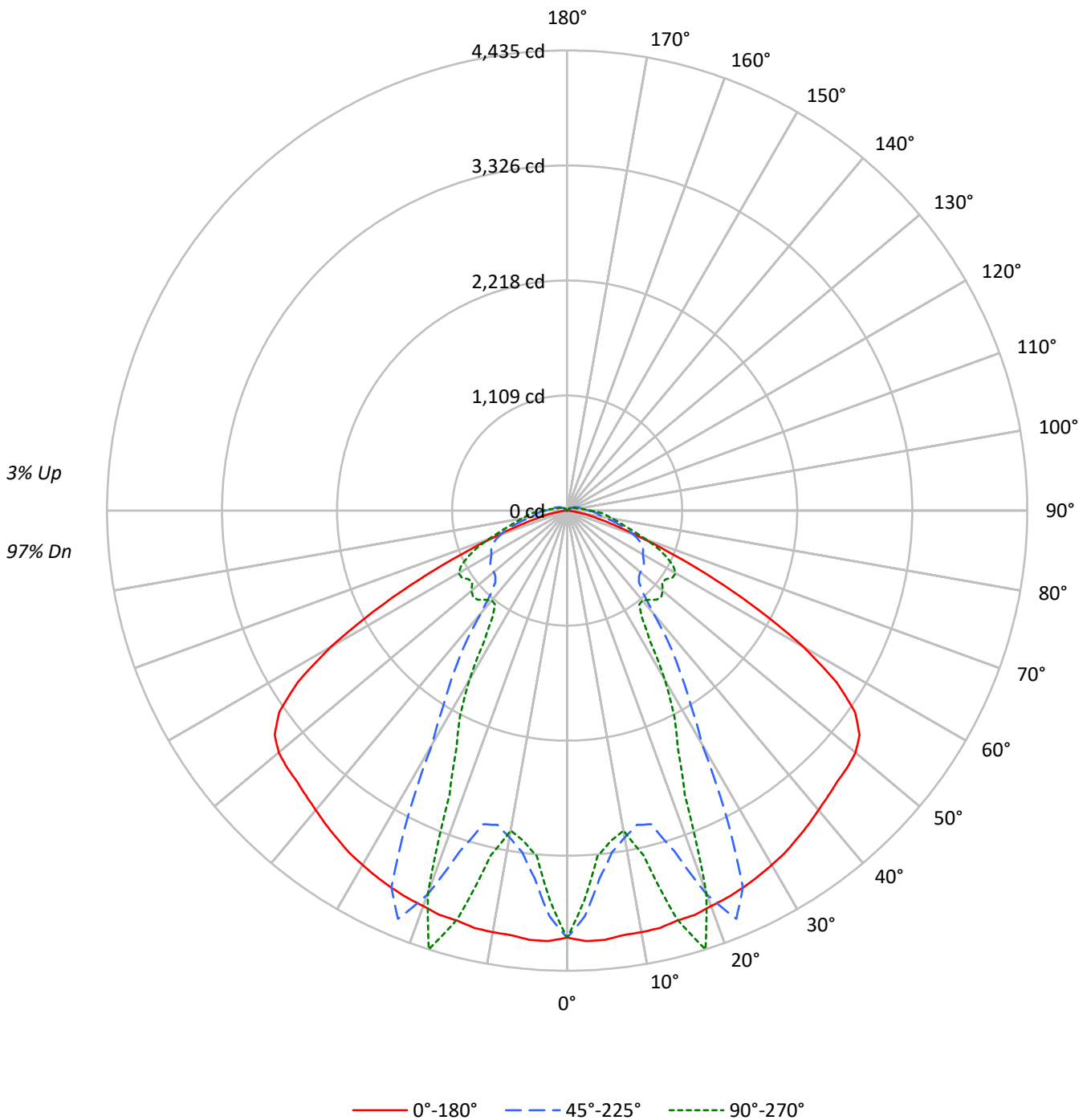
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290296

CATALOG NUMBER: 4SSRK-SLC-80-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P290296

CATALOG NUMBER: 4SSRK-SLC-80-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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	108	103	99	95	105	101	97	93	96	93	90	91	89	87	87	85	83	81
2	99	91	84	79	96	89	83	78	85	80	75	81	77	73	77	74	71	69
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	65	61	59
4	84	72	64	57	81	71	63	57	68	61	56	65	59	54	62	57	53	51
5	77	65	56	50	75	64	56	50	61	54	49	59	53	48	57	51	47	45
6	72	59	50	44	70	58	50	44	56	49	43	54	47	43	52	46	42	40
7	67	54	45	40	65	53	45	39	51	44	39	49	43	38	48	42	38	36
8	62	49	41	36	61	49	41	35	47	40	35	46	39	35	44	38	34	32
9	58	46	38	32	57	45	37	32	44	37	32	42	36	32	41	35	31	29
10	55	42	35	30	54	42	34	30	40	34	29	39	33	29	38	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	265824	265824	265824
5°	268240	184687	160668
10°	268587	139437	120406
15°	270502	118481	131274
20°	274602	132731	109721
25°	280283	122403	62676
30°	287203	73285	42454
35°	295838	49901	25987
40°	306938	32090	21849
45°	323261	23206	22213
50°	347254	21030	20950
55°	359862	20027	19376
60°	316985	18279	19686
65°	220214	17199	16842
70°	126599	14621	12667
75°	70766	11041	9011
80°	38958	7794	6967
85°	17468	6255	5703



TEST NUMBER: P290296

CATALOG NUMBER: 4SSRK-SLC-80-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.9	4.0
10°-20°	1027.0	11.9
20°-30°	1511.6	17.5
30°-40°	1476.7	17.1
40°-50°	1224.2	14.1
50°-60°	1123.9	13.0
60°-70°	890.6	10.3
70°-80°	494.5	5.7
80°-90°	261.9	3.0
90°-100°	137.7	1.6
100°-110°	82.9	1.0
110°-120°	47.3	0.5
120°-130°	26.1	0.3
130°-140°	8.2	0.1
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2880.5	33.3
0°-40°	4357.2	50.3
0°-60°	6705.2	77.5
0°-90°	8352.3	96.5
90°-120°	267.9	3.1
90°-150°	302.6	3.5
90°-180°	303.0	3.5
0°-180°	8654.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4116	4116	4116	4116	4116	
5°	4153	3920	3561	3409	3346	395
15°	4091	3267	3129	3832	4068	1160
25°	4010	3119	4007	2732	2520	1853
35°	3862	3724	1900	1357	1253	2423
45°	3687	1684	980	1118	1216	2859
55°	3386	750	904	1083	1155	2941
65°	1570	487	802	1018	1056	1589
75°	328	297	516	551	575	388
85°	35	146	284	345	360	48
90°	1	106	208	227	225	2
95°	2	84	161	168	160	1
105°	2	56	113	98	88	2
115°	2	7	74	70	65	2
125°	2	2	34	54	53	2
135°	2	2	2	23	29	1
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: P290296

CATALOG NUMBER: 4SSRK-SLC-80-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4116.0	4116.0	4116.0	4116.0	4116.0
2.5°	4152.7	4078.3	3913.0	3800.9	3763.2
5°	4152.7	3919.8	3561.1	3409.4	3345.6
7.5°	4127.6	3718.7	3320.4	3254.7	3213.1
10°	4125.7	3504.1	3197.7	3142.6	3131.0
12.5°	4120.8	3385.2	3102.9	3298.2	3403.6
15°	4090.9	3267.3	3129.0	3831.8	4067.7
17.5°	4086.0	3179.3	3446.1	4335.4	4435.0
20°	4056.1	3109.7	3940.1	4271.6	3920.7
22.5°	4036.7	3061.4	4258.1	3436.4	2958.9
25°	4009.7	3119.4	4006.8	2731.8	2520.1
27.5°	3978.7	3305.9	3321.4	2378.0	2237.8
30°	3943.9	3597.9	2604.2	2078.3	1884.0
32.5°	3909.1	3811.5	2216.5	1706.1	1478.0
35°	3861.8	3723.5	1899.5	1357.2	1252.8
37.5°	3817.3	3317.5	1610.4	1171.6	1141.6
40°	3768.0	2672.8	1293.4	1098.1	1129.0
42.5°	3726.4	2118.9	1086.5	1090.4	1166.7
45°	3686.8	1683.9	980.2	1118.4	1216.0
47.5°	3663.6	1338.8	937.7	1152.2	1230.5
50°	3627.8	1073.0	922.2	1159.0	1202.5
52.5°	3552.4	884.5	917.4	1123.2	1153.2
55°	3386.2	750.1	903.8	1082.6	1155.1
57.5°	3079.7	667.0	872.9	1091.3	1202.5
60°	2631.2	602.2	842.0	1119.4	1208.3
62.5°	2093.8	543.3	825.5	1096.2	1151.3
65°	1569.8	487.2	802.3	1017.9	1055.6
67.5°	1099.1	438.9	750.1	920.3	940.6
70°	747.2	392.5	685.4	795.6	804.3
72.5°	502.7	346.1	605.1	667.0	680.5
75°	327.7	296.8	516.2	551.0	575.2
77.5°	208.8	252.3	428.2	472.7	503.6
80°	129.5	208.8	360.6	424.4	443.7
82.5°	72.5	174.0	312.2	378.9	389.6
85°	34.8	146.0	284.2	345.1	359.6
87.5°	8.7	123.7	250.4	286.1	286.1
90°	1.0	106.3	207.8	227.2	225.2
92.5°	1.0	93.8	180.8	193.3	189.5
95°	1.9	84.1	161.4	168.2	160.5
97.5°	1.9	79.3	148.9	144.0	132.4
100°	1.9	73.5	135.3	122.8	110.2
102.5°	1.9	65.7	123.7	108.3	97.6
105°	1.9	56.1	113.1	97.6	88.0
107.5°	1.9	44.5	101.5	88.9	81.2
110°	1.9	31.9	90.9	82.2	76.4



TEST NUMBER: P290296

CATALOG NUMBER: 4SSRK-SLC-80-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	19.3	82.2	76.4	71.5
115°	1.9	6.8	73.5	69.6	64.8
117.5°	1.9	2.9	64.8	66.7	60.9
120°	1.9	2.9	54.1	62.8	58.0
122.5°	1.9	2.9	44.5	59.0	56.1
125°	1.9	1.9	33.8	54.1	53.2
127.5°	1.9	1.9	23.2	47.4	49.3
130°	1.9	1.9	11.6	38.7	43.5
132.5°	1.9	1.9	1.9	31.9	35.8
135°	1.9	1.9	1.9	23.2	29.0
137.5°	1.9	1.9	1.9	11.6	21.3
140°	1.9	1.9	1.9	1.9	8.7
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)