

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: P290260

Luminaire Tested: **4SSRK-SLC-20-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290260
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-20-L930-CD1-U
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 90 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

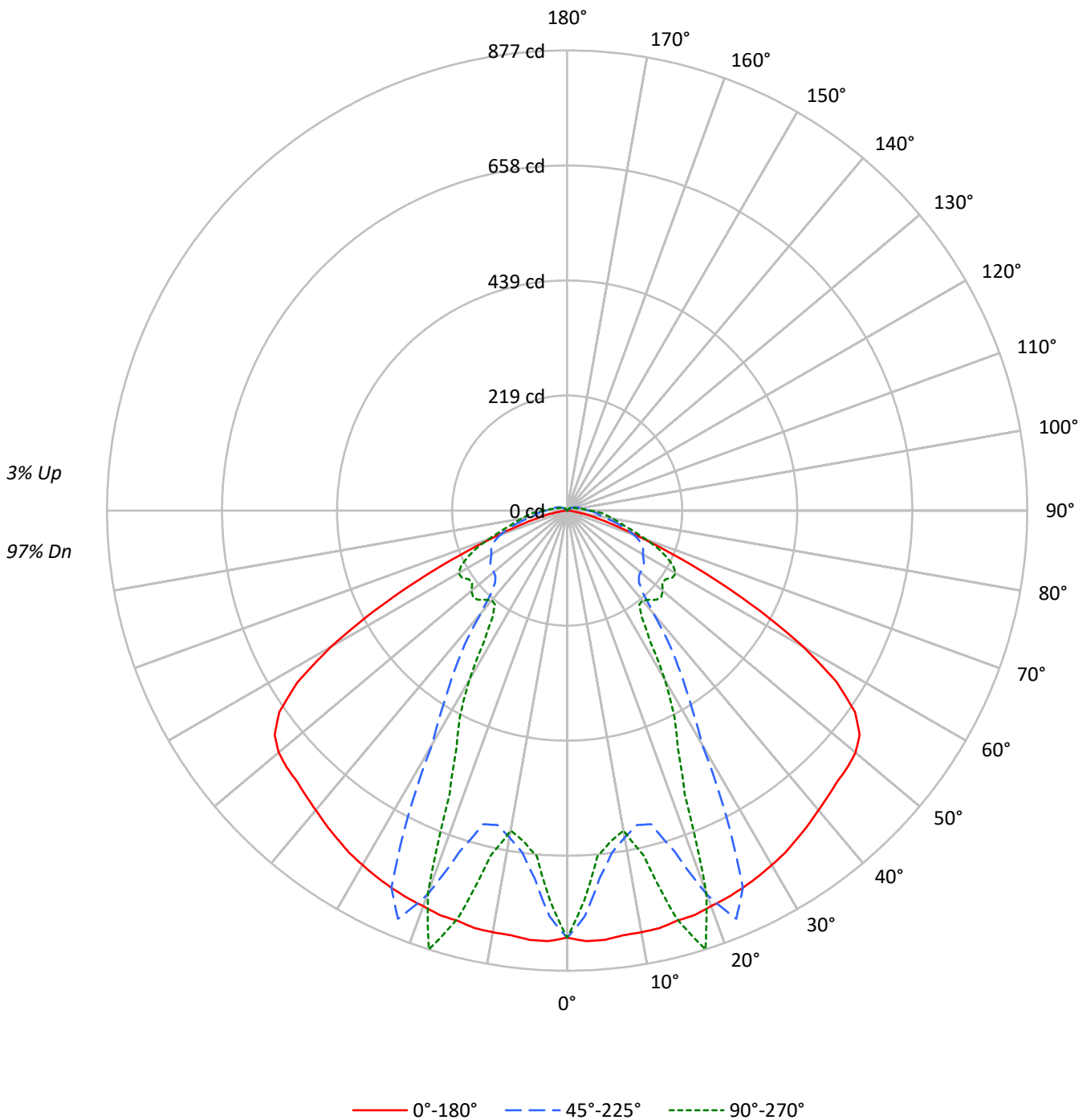
Lumens per Lamp: N/A
Luminaire Lumens: 1711.7 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 13.7
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: P290260
CATALOG NUMBER: 4SSRK-SLC-20-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P290260

CATALOG NUMBER: 4SSRK-SLC-20-L930-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	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	99	99	99	97		
1	108	103	99	95	105	101	97	93	96	93	90	91	89	87	87	85	83	87	85	83	87	85	83	81		
2	99	91	84	79	96	89	83	78	85	80	75	81	77	73	77	74	71	77	74	71	77	74	71	69		
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	65	61	69	65	61	69	65	61	59		
4	84	72	64	57	81	71	63	57	68	61	56	65	59	54	62	57	53	62	57	53	62	57	53	51		
5	77	65	56	50	75	64	56	50	61	54	49	59	53	48	57	51	47	57	51	47	57	51	47	45		
6	72	59	50	44	70	58	50	44	56	49	43	54	47	43	52	46	42	52	46	42	52	46	42	40		
7	67	54	45	40	65	53	45	39	51	44	39	49	43	38	48	42	38	48	42	38	48	42	38	36		
8	62	49	41	36	61	49	41	35	47	40	35	46	39	35	44	38	34	44	38	34	44	38	34	32		
9	58	46	38	32	57	45	37	32	44	37	32	42	36	32	41	35	31	41	35	31	41	35	31	29		
10	55	42	35	30	54	42	34	30	40	34	29	39	33	29	38	33	29	38	33	29	38	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	52571	52571	52571
5°	53051	36527	31777
10°	53116	27576	23812
15°	53500	23431	25963
20°	54310	26249	21700
25°	55432	24207	12395
30°	56801	14493	8396
35°	58504	9870	5140
40°	60703	6347	4321
45°	63928	4591	4393
50°	68679	4160	4143
55°	71171	3960	3833
60°	62693	3614	3894
65°	43557	3402	3331
70°	25042	2890	2506
75°	13993	2184	1781
80°	7701	1541	1377
85°	3463	1237	1128



TEST NUMBER: P290260

CATALOG NUMBER: 4SSRK-SLC-20-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	4.0
10°-20°	203.1	11.9
20°-30°	299.0	17.5
30°-40°	292.0	17.1
40°-50°	242.1	14.1
50°-60°	222.3	13.0
60°-70°	176.1	10.3
70°-80°	97.8	5.7
80°-90°	51.8	3.0
90°-100°	27.2	1.6
100°-110°	16.4	1.0
110°-120°	9.4	0.5
120°-130°	5.2	0.3
130°-140°	1.6	0.1
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°	569.7	33.3
0°-40°	861.7	50.3
0°-60°	1326.1	77.5
0°-90°	1651.8	96.5
90°-120°	53.0	3.1
90°-150°	59.8	3.5
90°-180°	60.0	3.5
0°-180°	1711.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	814	814	814	814	814	
5°	821	775	704	674	662	78
15°	809	646	619	758	804	229
25°	793	617	792	540	498	366
35°	764	736	376	268	248	479
45°	729	333	194	221	240	565
55°	670	148	179	214	228	582
65°	310	96	159	201	209	314
75°	65	59	102	109	114	77
85°	7	29	56	68	71	9
90°	0	21	41	45	44	0
95°	0	17	32	33	32	0
105°	0	11	22	19	17	0
115°	0	1	14	14	13	0
125°	0	0	7	11	10	0
135°	0	0	0	5	6	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: P290260

CATALOG NUMBER: 4SSRK-SLC-20-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	814.0	814.0	814.0	814.0	814.0
2.5°	821.3	806.6	773.9	751.7	744.2
5°	821.3	775.2	704.3	674.3	661.7
7.5°	816.3	735.5	656.7	643.7	635.5
10°	815.9	693.0	632.4	621.5	619.2
12.5°	815.0	669.5	613.7	652.3	673.1
15°	809.1	646.2	618.8	757.8	804.5
17.5°	808.1	628.8	681.5	857.4	877.1
20°	802.2	615.0	779.2	844.8	775.4
22.5°	798.4	605.5	842.1	679.6	585.2
25°	793.0	616.9	792.4	540.3	498.4
27.5°	786.9	653.8	656.9	470.3	442.6
30°	780.0	711.6	515.0	411.0	372.6
32.5°	773.1	753.8	438.4	337.4	292.3
35°	763.7	736.4	375.7	268.4	247.8
37.5°	755.0	656.1	318.5	231.7	225.8
40°	745.2	528.6	255.8	217.2	223.3
42.5°	737.0	419.1	214.9	215.6	230.7
45°	729.1	333.0	193.9	221.2	240.5
47.5°	724.6	264.8	185.4	227.9	243.4
50°	717.5	212.2	182.4	229.2	237.8
52.5°	702.6	174.9	181.4	222.1	228.1
55°	669.7	148.4	178.7	214.1	228.5
57.5°	609.1	131.9	172.6	215.8	237.8
60°	520.4	119.1	166.5	221.4	239.0
62.5°	414.1	107.4	163.3	216.8	227.7
65°	310.5	96.4	158.7	201.3	208.8
67.5°	217.4	86.8	148.4	182.0	186.0
70°	147.8	77.6	135.5	157.3	159.1
72.5°	99.4	68.4	119.7	131.9	134.6
75°	64.8	58.7	102.1	109.0	113.7
77.5°	41.3	49.9	84.7	93.5	99.6
80°	25.6	41.3	71.3	83.9	87.7
82.5°	14.3	34.4	61.7	74.9	77.0
85°	6.9	28.9	56.2	68.2	71.1
87.5°	1.7	24.5	49.5	56.6	56.6
90°	0.2	21.0	41.1	44.9	44.5
92.5°	0.2	18.5	35.7	38.2	37.5
95°	0.4	16.6	31.9	33.3	31.7
97.5°	0.4	15.7	29.4	28.5	26.2
100°	0.4	14.5	26.8	24.3	21.8
102.5°	0.4	13.0	24.5	21.4	19.3
105°	0.4	11.1	22.4	19.3	17.4
107.5°	0.4	8.8	20.1	17.6	16.1
110°	0.4	6.3	18.0	16.2	15.1



TEST NUMBER: P290260

CATALOG NUMBER: 4SSRK-SLC-20-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	3.8	16.2	15.1	14.1
115°	0.4	1.3	14.5	13.8	12.8
117.5°	0.4	0.6	12.8	13.2	12.0
120°	0.4	0.6	10.7	12.4	11.5
122.5°	0.4	0.6	8.8	11.7	11.1
125°	0.4	0.4	6.7	10.7	10.5
127.5°	0.4	0.4	4.6	9.4	9.7
130°	0.4	0.4	2.3	7.6	8.6
132.5°	0.4	0.4	0.4	6.3	7.1
135°	0.4	0.4	0.4	4.6	5.7
137.5°	0.4	0.4	0.4	2.3	4.2
140°	0.4	0.4	0.4	0.4	1.7
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)