

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: P290086

Luminaire Tested: **4SSRK-LN-20-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290086
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-20-L940-CD1-U
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1767.3 lumens
Efficiency: N/A
Efficacy: 129.0 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

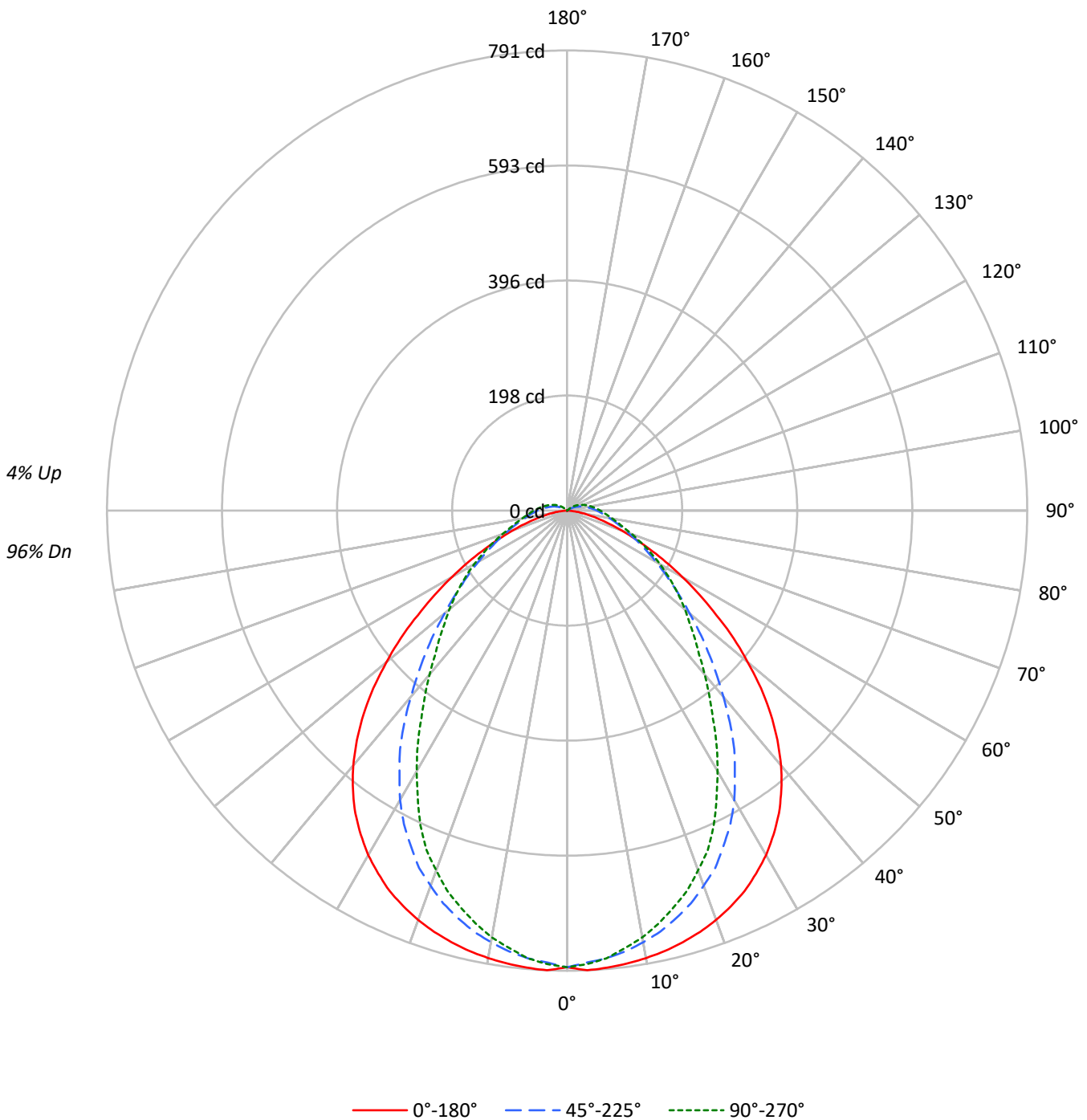
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	50698	50698	50698
5°	50952	40069	37103
10°	50850	32852	28654
15°	50782	27460	22800
20°	50701	23119	18420
25°	50455	19429	14840
30°	49796	16167	11648
35°	48645	13164	9067
40°	46611	10366	7124
45°	43411	8099	5661
50°	38795	6262	4610
55°	33285	4873	3744
60°	27564	3821	3011
65°	21814	3008	2377
70°	16842	2381	1869
75°	12395	1934	1488
80°	8694	1595	1234
85°	5020	1345	1052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	4.2
10°-20°	206.4	11.7
20°-30°	297.4	16.8
30°-40°	322.2	18.2
40°-50°	285.4	16.1
50°-60°	217.1	12.3
60°-70°	144.7	8.2
70°-80°	89.4	5.1
80°-90°	56.0	3.2
90°-100°	36.8	2.1
100°-110°	22.6	1.3
110°-120°	11.6	0.7
120°-130°	3.8	0.2
130°-140°	0.2	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°	577.5	32.7
0°-40°	899.7	50.9
0°-60°	1402.2	79.3
0°-90°	1692.3	95.8
90°-120°	71.0	4.0
90°-150°	75.0	4.2
90°-180°	75.0	4.2
0°-180°	1767.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	785	785	785	785	785	
5°	789	784	773	776	773	75
15°	768	753	725	715	706	217
25°	722	688	636	609	597	332
35°	635	576	501	454	437	396
45°	495	418	342	316	310	380
55°	313	256	220	223	223	281
65°	156	136	140	148	149	157
75°	57	70	90	96	95	63
85°	10	36	61	67	66	12
90°	0	26	51	57	57	1
95°	1	18	42	49	49	1
105°	1	7	26	34	34	1
115°	1	1	14	21	23	1
125°	0	0	0	9	11	0
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	785.0	785.0	785.0	785.0	785.0
2.5°	790.9	786.5	777.6	782.7	780.3
5°	788.8	783.8	772.6	775.5	772.6
7.5°	785.4	779.2	764.2	765.5	758.6
10°	781.1	772.8	753.4	751.4	745.1
12.5°	775.5	763.8	741.2	732.9	726.8
15°	768.0	753.4	725.2	715.4	706.5
17.5°	759.5	740.8	707.9	696.1	685.5
20°	748.9	725.4	686.3	669.9	658.2
22.5°	736.0	708.5	664.9	641.0	631.6
25°	721.8	688.0	636.0	608.8	596.7
27.5°	703.4	665.3	607.5	573.4	556.2
30°	683.8	638.5	574.5	535.2	516.9
32.5°	660.3	609.2	536.2	494.5	478.3
35°	635.0	575.5	501.1	453.9	437.1
37.5°	605.0	539.2	459.3	416.1	401.4
40°	572.2	499.7	417.8	379.7	368.1
42.5°	534.8	459.5	378.7	345.9	335.9
45°	495.1	417.6	342.1	316.1	309.9
47.5°	451.9	375.6	307.8	289.3	284.7
50°	405.3	333.6	274.6	264.4	264.6
52.5°	361.0	293.9	246.3	243.6	243.0
55°	313.2	255.7	219.9	222.6	223.2
57.5°	270.0	220.1	197.5	202.4	203.1
60°	228.8	188.3	176.0	183.7	184.8
62.5°	191.2	161.1	157.8	165.7	165.4
65°	155.5	136.3	140.3	148.4	149.0
67.5°	125.1	116.2	125.7	132.8	132.4
70°	99.4	98.1	111.6	119.1	118.7
72.5°	77.3	82.9	100.6	107.0	105.4
75°	57.4	69.8	90.4	96.4	95.0
77.5°	42.2	59.0	81.5	87.3	86.3
80°	28.9	50.1	73.8	79.8	78.6
82.5°	18.5	42.6	67.1	73.0	72.1
85°	10.0	36.0	61.1	67.3	66.3
87.5°	3.7	30.6	55.7	61.9	61.5
90°	0.4	26.2	50.9	57.4	56.9
92.5°	0.6	22.2	46.3	53.0	53.0
95°	1.0	18.5	42.2	48.8	48.6
97.5°	0.8	15.6	37.6	44.9	44.9
100°	0.8	12.9	33.5	40.7	41.2
102.5°	0.8	10.2	29.9	37.0	37.8
105°	0.6	7.3	26.4	33.7	34.5
107.5°	0.6	4.2	22.9	30.6	31.6
110°	0.6	1.0	19.7	27.2	28.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	16.6	24.1	25.4
115°	0.6	0.6	13.5	21.0	22.9
117.5°	0.4	0.4	10.0	18.3	20.0
120°	0.4	0.4	6.2	15.4	17.0
122.5°	0.4	0.4	2.7	12.3	14.5
125°	0.4	0.4	0.4	9.1	11.4
127.5°	0.4	0.4	0.2	5.4	8.1
130°	0.4	0.4	0.2	2.1	5.0
132.5°	0.4	0.4	0.2	0.2	1.5
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)