

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: P290090

Luminaire Tested: **4SSRK-LN-20-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290090
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-L840-CD1-U
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2089.0 lumens
Efficiency: N/A
Efficacy: 152.5 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

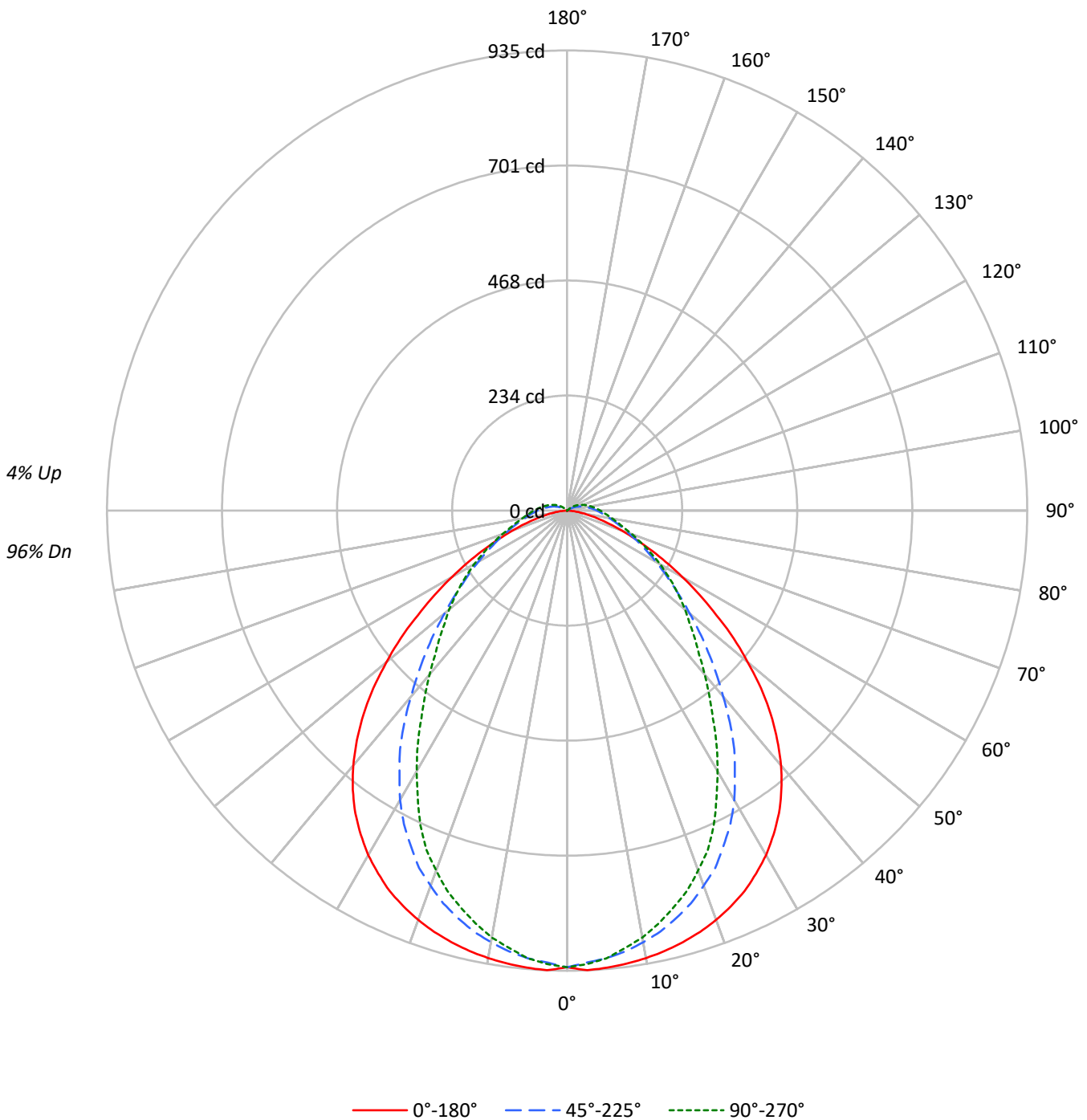
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96					96			
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81					81			
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69					69			
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59					59			
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52					52			
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46					46			
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	41					41			
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	36					36			
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	33					33			
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	59927	59927	59927
5°	60228	47361	43855
10°	60108	38835	33872
15°	60026	32458	26951
20°	59929	27327	21775
25°	59640	22967	17541
30°	58862	19111	13768
35°	57501	15560	10718
40°	55099	12251	8420
45°	51311	9574	6691
50°	45860	7400	5450
55°	39342	5759	4427
60°	32588	4518	3558
65°	25784	3554	2811
70°	19891	2814	2210
75°	14641	2287	1759
80°	10258	1885	1459
85°	5923	1589	1243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	4.2
10°-20°	244.0	11.7
20°-30°	351.6	16.8
30°-40°	380.9	18.2
40°-50°	337.3	16.1
50°-60°	256.7	12.3
60°-70°	171.0	8.2
70°-80°	105.6	5.1
80°-90°	66.2	3.2
90°-100°	43.5	2.1
100°-110°	26.6	1.3
110°-120°	13.8	0.7
120°-130°	4.5	0.2
130°-140°	0.3	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°	682.7	32.7
0°-40°	1063.5	50.9
0°-60°	1657.5	79.3
0°-90°	2000.3	95.8
90°-120°	83.9	4.0
90°-150°	88.7	4.2
90°-180°	89.0	4.3
0°-180°	2089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	932	926	913	917	913	89
15°	908	891	857	846	835	256
25°	853	813	752	720	705	393
35°	751	680	592	537	517	468
45°	585	494	404	374	366	449
55°	370	302	260	263	264	333
65°	184	161	166	175	176	186
75°	68	82	107	114	112	75
85°	12	42	72	80	78	14
90°	0	31	60	68	67	1
95°	1	22	50	58	58	1
105°	1	9	31	40	41	1
115°	1	1	16	25	27	1
125°	0	0	0	11	14	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°	927.9	927.9	927.9	927.9	927.9
2.5°	934.8	929.7	919.1	925.2	922.3
5°	932.4	926.5	913.2	916.6	913.2
7.5°	928.4	921.1	903.4	904.8	896.7
10°	923.3	913.4	890.6	888.1	880.8
12.5°	916.6	902.9	876.1	866.3	859.1
15°	907.8	890.6	857.2	845.6	835.1
17.5°	897.7	875.6	836.8	822.8	810.3
20°	885.2	857.4	811.2	791.8	778.1
22.5°	870.0	837.5	785.9	757.7	746.6
25°	853.2	813.2	751.8	719.6	705.3
27.5°	831.4	786.4	718.1	677.8	657.4
30°	808.3	754.7	679.1	632.6	611.0
32.5°	780.5	720.1	633.9	584.5	565.3
35°	750.6	680.3	592.3	536.6	516.7
37.5°	715.2	637.3	543.0	491.9	474.4
40°	676.4	590.6	493.8	448.9	435.1
42.5°	632.1	543.2	447.6	408.8	397.0
45°	585.2	493.6	404.4	373.7	366.3
47.5°	534.1	443.9	363.9	342.0	336.6
50°	479.1	394.3	324.5	312.5	312.8
52.5°	426.7	347.4	291.1	287.9	287.2
55°	370.2	302.2	259.9	263.1	263.9
57.5°	319.1	260.2	233.4	239.3	240.0
60°	270.5	222.6	208.1	217.2	218.4
62.5°	226.0	190.4	186.5	195.8	195.6
65°	183.8	161.2	165.8	175.4	176.2
67.5°	147.9	137.3	148.6	157.0	156.5
70°	117.4	116.0	131.9	140.8	140.3
72.5°	91.4	98.0	118.9	126.5	124.6
75°	67.8	82.5	106.9	114.0	112.3
77.5°	49.9	69.8	96.3	103.2	102.0
80°	34.1	59.2	87.2	94.3	92.9
82.5°	21.9	50.4	79.4	86.2	85.3
85°	11.8	42.5	72.2	79.6	78.4
87.5°	4.4	36.1	65.8	73.2	72.7
90°	0.5	31.0	60.2	67.8	67.3
92.5°	0.7	26.3	54.8	62.6	62.6
95°	1.2	21.9	49.9	57.7	57.5
97.5°	1.0	18.4	44.5	53.1	53.1
100°	1.0	15.2	39.6	48.2	48.6
102.5°	1.0	12.0	35.4	43.7	44.7
105°	0.7	8.6	31.2	39.8	40.8
107.5°	0.7	4.9	27.0	36.1	37.3
110°	0.7	1.2	23.3	32.2	33.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	0.7	19.7	28.5	30.0
115°	0.7	0.7	16.0	24.8	27.0
117.5°	0.5	0.5	11.8	21.6	23.6
120°	0.5	0.5	7.4	18.2	20.1
122.5°	0.5	0.5	3.2	14.5	17.2
125°	0.5	0.5	0.5	10.8	13.5
127.5°	0.5	0.5	0.2	6.4	9.6
130°	0.5	0.5	0.2	2.5	5.9
132.5°	0.5	0.5	0.2	0.2	1.7
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)