

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: P290085

Luminaire Tested: **4SSRK-LN-20-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290085
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-L935-CD1-U
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1725.5 lumens
Efficiency: N/A
Efficacy: 125.9 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

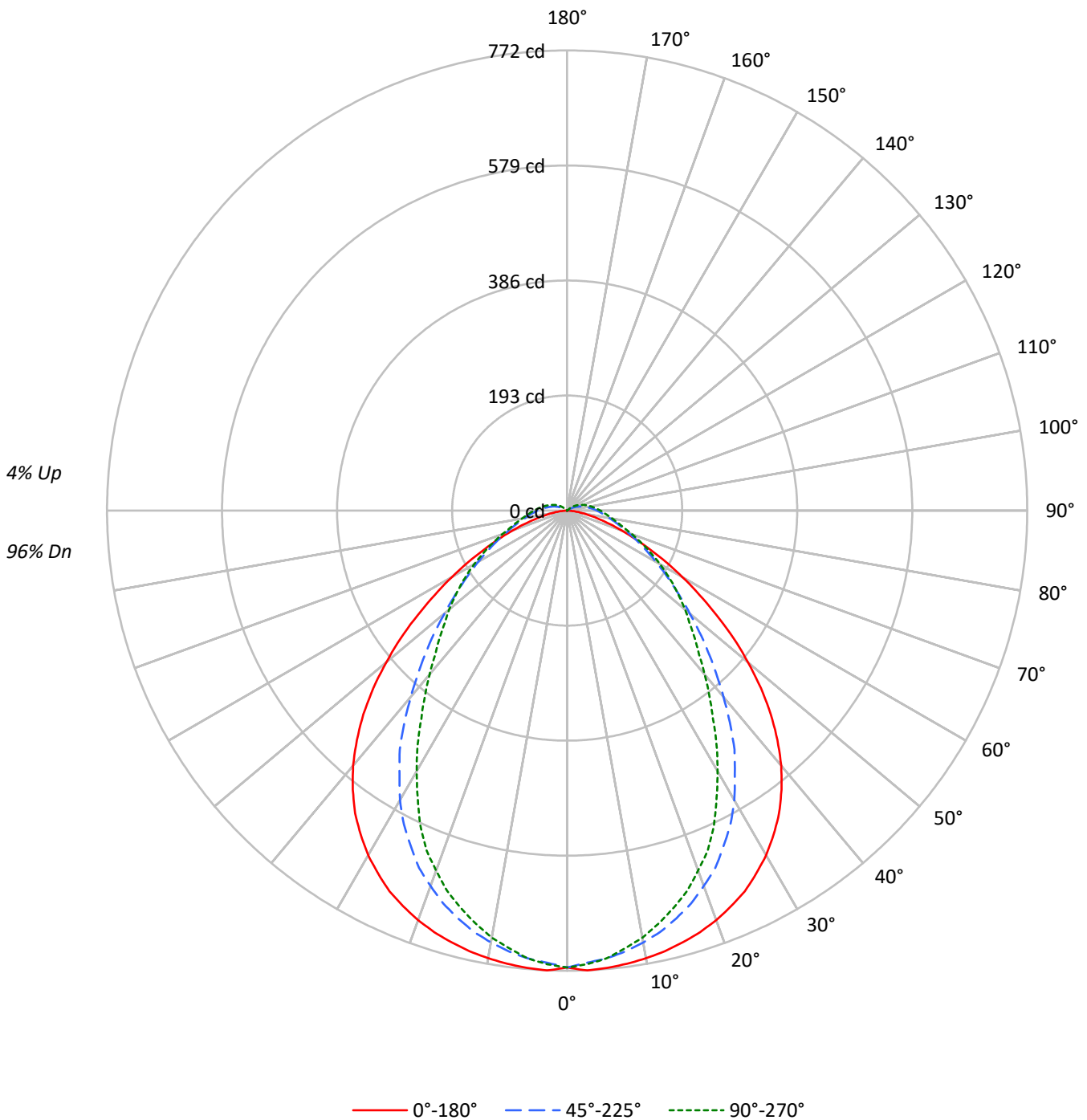
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	49503	49503	49503
5°	49744	39120	36224
10°	49646	32076	27977
15°	49579	26809	22261
20°	49503	22574	17986
25°	49266	18971	14490
30°	48616	15784	11373
35°	47496	12854	8853
40°	45511	10120	6955
45°	42385	7907	5528
50°	37876	6114	4500
55°	32498	4757	3655
60°	26913	3732	2939
65°	21295	2937	2321
70°	16435	2325	1825
75°	12093	1889	1452
80°	8483	1556	1204
85°	4869	1314	1026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	4.2
10°-20°	201.5	11.7
20°-30°	290.4	16.8
30°-40°	314.6	18.2
40°-50°	278.6	16.1
50°-60°	212.0	12.3
60°-70°	141.3	8.2
70°-80°	87.3	5.1
80°-90°	54.7	3.2
90°-100°	35.9	2.1
100°-110°	22.0	1.3
110°-120°	11.4	0.7
120°-130°	3.7	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°	563.9	32.7
0°-40°	878.5	50.9
0°-60°	1369.1	79.3
0°-90°	1652.3	95.8
90°-120°	69.3	4.0
90°-150°	73.2	4.2
90°-180°	73.0	4.2
0°-180°	1725.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	770	765	754	757	754	73
15°	750	736	708	698	690	212
25°	705	672	621	594	583	324
35°	620	562	489	443	427	386
45°	483	408	334	309	303	371
55°	306	250	215	217	218	275
65°	152	133	137	145	146	153
75°	56	68	88	94	93	62
85°	10	35	60	66	65	12
90°	0	26	50	56	56	1
95°	1	18	41	48	48	1
105°	1	7	26	33	34	1
115°	1	1	13	20	22	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°	766.5	766.5	766.5	766.5	766.5
2.5°	772.2	767.9	759.2	764.2	761.8
5°	770.1	765.3	754.3	757.1	754.3
7.5°	766.9	760.8	746.2	747.4	740.7
10°	762.6	754.5	735.6	733.6	727.5
12.5°	757.1	745.8	723.7	715.5	709.6
15°	749.8	735.6	708.0	698.5	689.8
17.5°	741.5	723.2	691.2	679.6	669.3
20°	731.2	708.2	670.1	654.0	642.7
22.5°	718.6	691.8	649.2	625.8	616.7
25°	704.8	671.7	621.0	594.4	582.6
27.5°	686.7	649.6	593.2	559.9	543.0
30°	667.6	623.4	560.9	522.5	504.7
32.5°	644.7	594.8	523.6	482.8	466.9
35°	620.0	561.9	489.3	443.2	426.8
37.5°	590.7	526.4	448.5	406.3	391.9
40°	558.7	487.8	407.9	370.8	359.4
42.5°	522.1	448.7	369.7	337.7	327.9
45°	483.4	407.7	334.0	308.7	302.6
47.5°	441.2	366.7	300.5	282.5	278.0
50°	395.7	325.7	268.1	258.1	258.3
52.5°	352.5	286.9	240.5	237.8	237.2
55°	305.8	249.6	214.7	217.3	217.9
57.5°	263.6	214.9	192.8	197.7	198.3
60°	223.4	183.9	171.9	179.4	180.4
62.5°	186.7	157.3	154.0	161.7	161.5
65°	151.8	133.1	137.0	144.9	145.5
67.5°	122.2	113.4	122.8	129.7	129.3
70°	97.0	95.8	109.0	116.3	115.9
72.5°	75.5	81.0	98.2	104.5	102.9
75°	56.0	68.2	88.3	94.2	92.7
77.5°	41.2	57.6	79.5	85.2	84.2
80°	28.2	48.9	72.0	77.9	76.7
82.5°	18.1	41.6	65.5	71.2	70.4
85°	9.7	35.1	59.7	65.7	64.7
87.5°	3.7	29.8	54.4	60.5	60.1
90°	0.4	25.6	49.7	56.0	55.6
92.5°	0.6	21.7	45.3	51.7	51.7
95°	1.0	18.1	41.2	47.7	47.5
97.5°	0.8	15.2	36.7	43.8	43.8
100°	0.8	12.6	32.7	39.8	40.2
102.5°	0.8	9.9	29.2	36.1	36.9
105°	0.6	7.1	25.8	32.9	33.7
107.5°	0.6	4.1	22.3	29.8	30.8
110°	0.6	1.0	19.3	26.6	27.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	16.2	23.5	24.8
115°	0.6	0.6	13.2	20.5	22.3
117.5°	0.4	0.4	9.7	17.9	19.5
120°	0.4	0.4	6.1	15.0	16.6
122.5°	0.4	0.4	2.6	12.0	14.2
125°	0.4	0.4	0.4	8.9	11.2
127.5°	0.4	0.4	0.2	5.3	7.9
130°	0.4	0.4	0.2	2.0	4.9
132.5°	0.4	0.4	0.2	0.2	1.4
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)