

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: P290089

Luminaire Tested: **4SSRK-LN-20-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290089
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-L835-CD1-U
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2054.1 lumens
Efficiency: N/A
Efficacy: 149.9 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

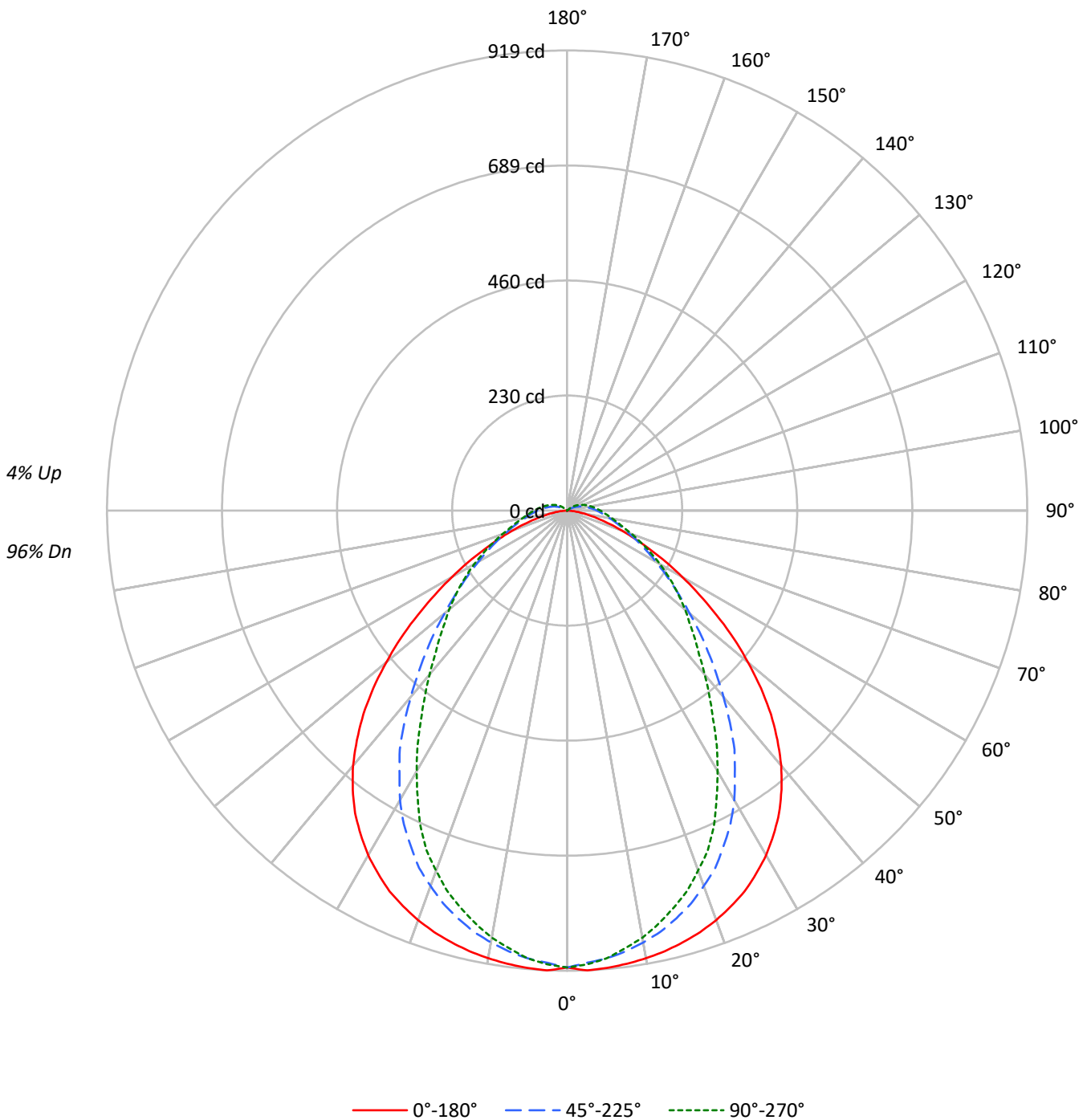
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	58932	58932	58932
5°	59220	46572	43125
10°	59105	38185	33307
15°	59028	31917	26499
20°	58927	26872	21411
25°	58647	22582	17250
30°	57879	18790	13538
35°	56535	15303	10540
40°	54178	12048	8279
45°	50460	9413	6580
50°	45094	7277	5357
55°	38694	5664	4353
60°	32045	4442	3500
65°	25349	3496	2763
70°	19569	2767	2172
75°	14404	2248	1730
80°	10108	1854	1434
85°	5823	1563	1223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	4.2
10°-20°	239.9	11.7
20°-30°	345.7	16.8
30°-40°	374.5	18.2
40°-50°	331.7	16.1
50°-60°	252.4	12.3
60°-70°	168.2	8.2
70°-80°	103.9	5.1
80°-90°	65.1	3.2
90°-100°	42.8	2.1
100°-110°	26.2	1.3
110°-120°	13.5	0.7
120°-130°	4.4	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°	671.3	32.7
0°-40°	1045.8	50.9
0°-60°	1629.8	79.3
0°-90°	1966.9	95.8
90°-120°	82.5	4.0
90°-150°	87.2	4.2
90°-180°	87.0	4.2
0°-180°	2054.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	917	911	898	901	898	87
15°	893	876	843	832	821	252
25°	839	800	739	708	694	386
35°	738	669	582	528	508	460
45°	576	485	398	367	360	441
55°	364	297	256	259	260	327
65°	181	158	163	172	173	182
75°	67	81	105	112	110	74
85°	12	42	71	78	77	14
90°	0	30	59	67	66	1
95°	1	22	49	57	56	1
105°	1	8	31	39	40	1
115°	1	1	16	24	27	1
125°	0	0	0	11	13	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°	912.5	912.5	912.5	912.5	912.5
2.5°	919.2	914.2	903.8	909.8	906.9
5°	916.8	911.0	898.0	901.3	898.0
7.5°	912.9	905.7	888.3	889.8	881.8
10°	907.9	898.2	875.7	873.3	866.1
12.5°	901.3	887.8	861.5	851.8	844.8
15°	892.7	875.7	842.9	831.5	821.1
17.5°	882.7	861.0	822.8	809.1	796.7
20°	870.4	843.1	797.7	778.6	765.1
22.5°	855.4	823.6	772.8	745.0	734.2
25°	839.0	799.6	739.2	707.6	693.6
27.5°	817.5	773.3	706.1	666.5	646.5
30°	794.8	742.1	667.7	622.1	600.8
32.5°	767.5	708.1	623.3	574.7	555.9
35°	738.0	668.9	582.5	527.6	508.1
37.5°	703.3	626.7	533.9	483.7	466.5
40°	665.1	580.8	485.6	441.4	427.8
42.5°	621.6	534.1	440.2	402.0	390.4
45°	575.5	485.3	397.6	367.4	360.2
47.5°	525.2	436.5	357.8	336.3	331.0
50°	471.1	387.7	319.1	307.3	307.5
52.5°	419.6	341.6	286.3	283.1	282.4
55°	364.1	297.1	255.6	258.7	259.5
57.5°	313.8	255.8	229.5	235.3	236.0
60°	266.0	218.9	204.6	213.6	214.8
62.5°	222.3	187.2	183.4	192.5	192.3
65°	180.7	158.5	163.1	172.5	173.2
67.5°	145.4	135.0	146.2	154.4	153.9
70°	115.5	114.0	129.7	138.4	137.9
72.5°	89.9	96.4	116.9	124.4	122.5
75°	66.7	81.2	105.1	112.1	110.4
77.5°	49.0	68.6	94.7	101.5	100.3
80°	33.6	58.2	85.8	92.8	91.3
82.5°	21.5	49.5	78.0	84.8	83.8
85°	11.6	41.8	71.0	78.3	77.1
87.5°	4.3	35.5	64.7	72.0	71.5
90°	0.5	30.4	59.2	66.7	66.2
92.5°	0.7	25.8	53.9	61.6	61.6
95°	1.2	21.5	49.0	56.8	56.5
97.5°	1.0	18.1	43.7	52.2	52.2
100°	1.0	15.0	38.9	47.4	47.8
102.5°	1.0	11.8	34.8	43.0	44.0
105°	0.7	8.5	30.7	39.1	40.1
107.5°	0.7	4.8	26.6	35.5	36.7
110°	0.7	1.2	23.0	31.6	33.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	0.7	19.3	28.0	29.5
115°	0.7	0.7	15.7	24.4	26.6
117.5°	0.5	0.5	11.6	21.3	23.2
120°	0.5	0.5	7.2	17.9	19.8
122.5°	0.5	0.5	3.1	14.3	16.9
125°	0.5	0.5	0.5	10.6	13.3
127.5°	0.5	0.5	0.2	6.3	9.4
130°	0.5	0.5	0.2	2.4	5.8
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)