

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: P290169

Luminaire Tested: **8SSRK-LN-12-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290169
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: 8SSRK-LN-12-L835-CD1-U
Description: 12000 LUMEN, 8 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: 11568.6 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

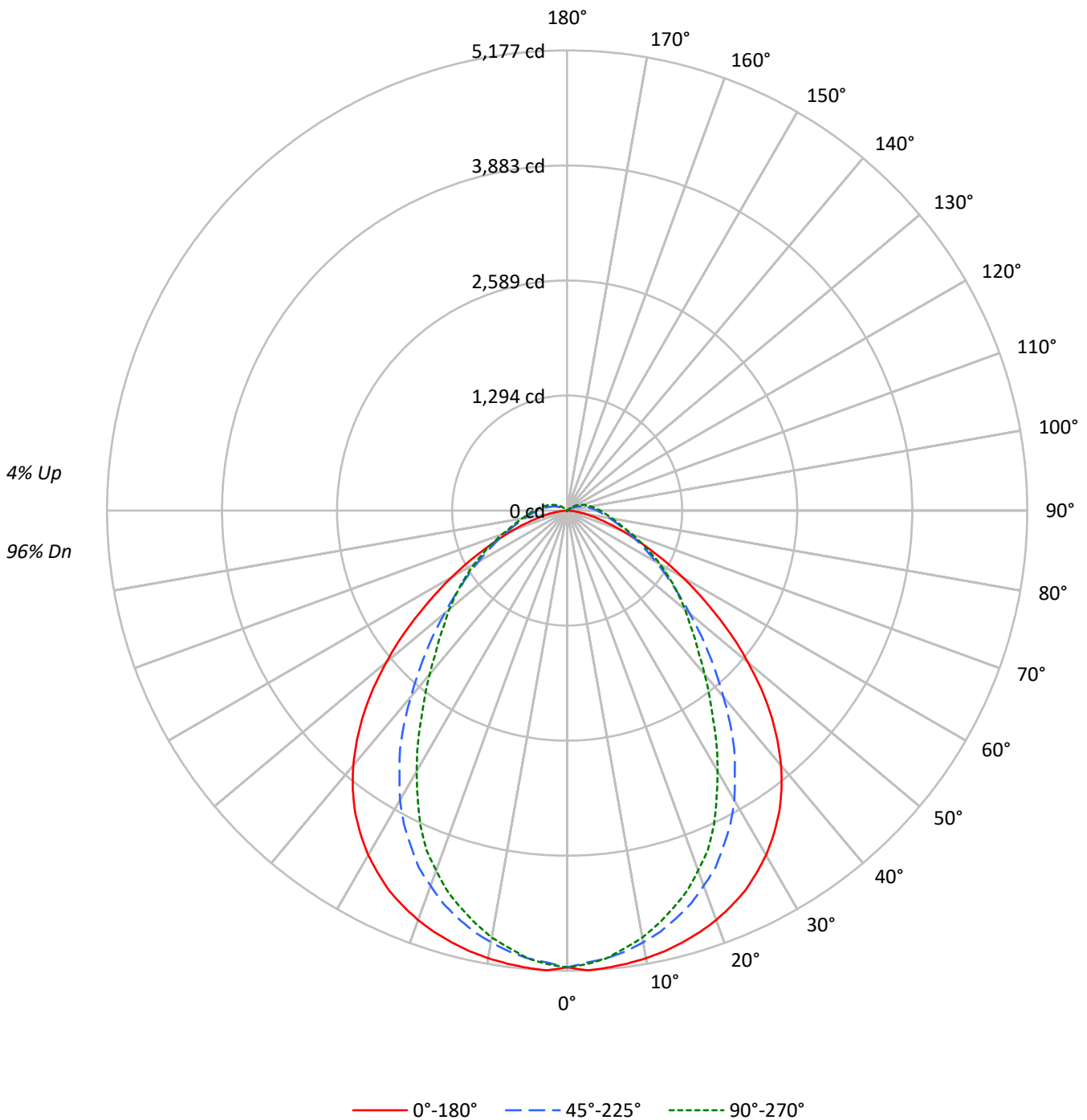
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	165939	165939	165939
5°	167060	131272	121430
10°	167037	107717	93785
15°	167129	90073	74621
20°	167184	75869	60291
25°	166734	63778	48573
30°	164920	53083	38124
35°	161492	43237	29675
40°	155178	34048	23315
45°	144977	26610	18528
50°	130049	20575	15088
55°	112094	16014	12255
60°	93376	12562	9853
65°	74435	9888	7782
70°	58073	7828	6118
75°	43469	6359	4871
80°	31449	5245	4038
85°	19541	4424	3442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.4	4.2
10°-20°	1351.0	11.7
20°-30°	1947.0	16.8
30°-40°	2109.1	18.2
40°-50°	1868.0	16.1
50°-60°	1421.4	12.3
60°-70°	947.0	8.2
70°-80°	585.1	5.1
80°-90°	366.6	3.2
90°-100°	240.9	2.1
100°-110°	147.6	1.3
110°-120°	76.2	0.7
120°-130°	25.0	0.2
130°-140°	1.5	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°	3780.5	32.7
0°-40°	5889.5	50.9
0°-60°	9178.9	79.3
0°-90°	11077.5	95.8
90°-120°	464.6	4.0
90°-150°	491.1	4.2
90°-180°	491.0	4.2
0°-180°	11568.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5139	5139	5139	5139	5139	
5°	5163	5131	5057	5076	5057	491
15°	5027	4932	4747	4683	4624	1420
25°	4725	4503	4163	3985	3906	2174
35°	4156	3767	3280	2971	2861	2590
45°	3241	2733	2239	2069	2029	2486
55°	2050	1674	1439	1457	1461	1842
65°	1018	892	918	971	976	1028
75°	376	457	592	631	622	415
85°	65	235	400	441	434	80
90°	3	171	333	376	373	5
95°	7	121	276	320	318	5
105°	4	48	173	220	226	5
115°	4	4	88	137	150	4
125°	3	3	3	60	75	2
135°	0	0	0	0	0	1
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°	5138.8	5138.8	5138.8	5138.8	5138.8
2.5°	5176.8	5148.3	5089.8	5123.8	5107.5
5°	5163.2	5130.6	5057.1	5076.2	5057.1
7.5°	5141.5	5100.7	5002.7	5010.9	4966.0
10°	5112.9	5058.5	4932.0	4918.3	4877.5
12.5°	5076.2	5000.0	4851.7	4797.3	4757.8
15°	5027.2	4932.0	4746.9	4683.0	4624.5
17.5°	4971.4	4849.0	4634.0	4556.4	4487.1
20°	4902.0	4748.3	4492.5	4385.0	4308.8
22.5°	4817.7	4638.1	4352.4	4195.9	4134.7
25°	4725.1	4503.4	4163.2	3985.0	3906.1
27.5°	4604.1	4355.1	3976.9	3753.7	3640.8
30°	4476.2	4179.6	3760.5	3503.4	3383.7
32.5°	4322.4	3987.7	3510.2	3236.7	3130.6
35°	4156.4	3767.3	3280.3	2971.4	2861.2
37.5°	3960.5	3529.2	3006.8	2723.8	2627.2
40°	3745.6	3270.7	2734.7	2485.7	2409.5
42.5°	3500.7	3008.2	2478.9	2263.9	2198.6
45°	3240.8	2733.3	2239.4	2069.4	2028.6
47.5°	2957.8	2458.5	2015.0	1893.9	1863.9
50°	2653.0	2183.7	1797.3	1730.6	1732.0
52.5°	2363.3	1923.8	1612.2	1594.6	1590.5
55°	2050.3	1673.5	1439.4	1457.1	1461.2
57.5°	1767.3	1440.8	1292.5	1325.2	1329.2
60°	1498.0	1232.6	1152.4	1202.7	1209.5
62.5°	1251.7	1054.4	1032.6	1084.3	1083.0
65°	1017.7	892.5	918.4	971.4	975.5
67.5°	819.0	760.5	823.1	869.4	866.7
70°	650.3	642.2	730.6	779.6	776.9
72.5°	506.1	542.9	658.5	700.7	689.8
75°	375.5	457.1	591.8	631.3	621.8
77.5°	276.2	386.4	533.3	571.4	564.6
80°	189.1	327.9	483.0	522.4	514.3
82.5°	121.1	278.9	439.5	477.5	472.1
85°	65.3	235.4	400.0	440.8	434.0
87.5°	24.5	200.0	364.6	405.4	402.7
90°	2.7	171.4	333.3	375.5	372.8
92.5°	4.1	145.6	303.4	346.9	346.9
95°	6.8	121.1	276.2	319.7	318.4
97.5°	5.4	102.0	246.3	293.9	293.9
100°	5.4	84.4	219.0	266.7	269.4
102.5°	5.4	66.7	195.9	242.2	247.6
105°	4.1	47.6	172.8	220.4	225.8
107.5°	4.1	27.2	149.7	200.0	206.8
110°	4.1	6.8	129.3	178.2	186.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.1	4.1	108.8	157.8	166.0
115°	4.1	4.1	88.4	137.4	149.7
117.5°	2.7	2.7	65.3	119.7	130.6
120°	2.7	2.7	40.8	100.7	111.6
122.5°	2.7	2.7	17.7	80.3	95.2
125°	2.7	2.7	2.7	59.9	74.8
127.5°	2.7	2.7	1.4	35.4	53.1
130°	2.7	2.7	1.4	13.6	32.7
132.5°	2.7	2.7	1.4	1.4	9.5
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)