

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: P289731

Luminaire Tested: **8SSRK-12-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-12-L850-CD1-U
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH NO LENS AND 80 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12589.6 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

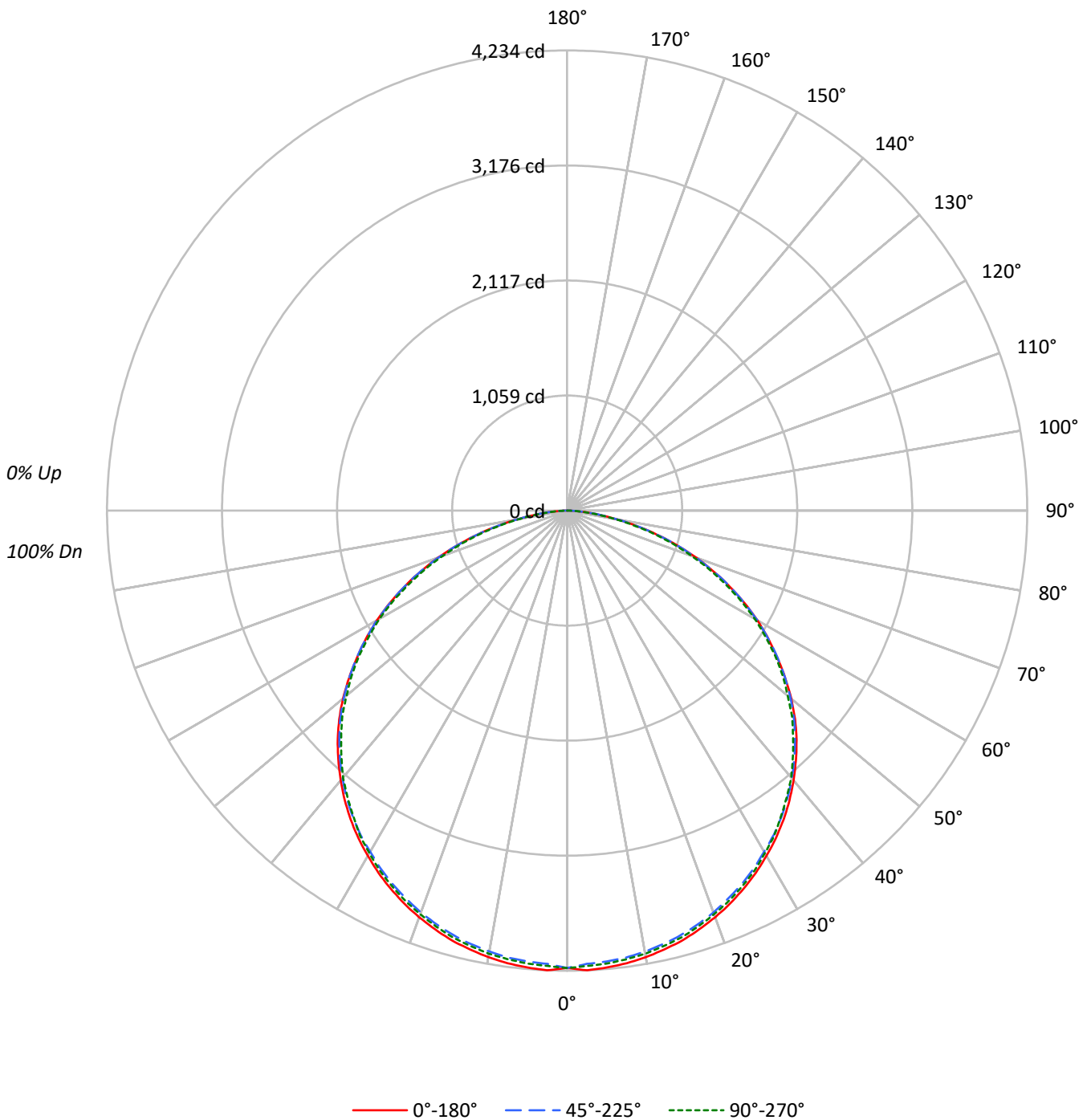
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	37	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	135912	135912	135912
5°	136542	108105	100432
10°	136327	89992	79598
15°	136155	76741	65616
20°	135807	66454	55311
25°	135484	58140	47418
30°	135139	51170	41000
35°	134877	45318	35588
40°	134248	40052	31034
45°	133570	35234	26853
50°	131985	30712	23069
55°	129124	26307	19611
60°	125920	22021	16242
65°	120528	17755	12825
70°	112807	13417	9577
75°	99140	9174	6481
80°	78465	5123	3498
85°	50513	1852	1152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.9	3.2
10°-20°	1149.2	9.1
20°-30°	1761.2	14.0
30°-40°	2158.9	17.1
40°-50°	2287.1	18.2
50°-60°	2108.8	16.8
60°-70°	1620.6	12.9
70°-80°	898.2	7.1
80°-90°	206.6	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	3309.3	26.3
0°-40°	5468.2	43.4
0°-60°	9864.1	78.4
0°-90°	12589.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12589.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4209	4209	4209	4209	4209	
5°	4220	4202	4165	4205	4183	401
15°	4096	4076	4044	4080	4066	1156
25°	3840	3826	3795	3834	3813	1771
35°	3471	3455	3438	3451	3431	2172
45°	2986	2976	2965	2961	2940	2301
55°	2362	2380	2365	2355	2338	2112
65°	1648	1652	1649	1627	1608	1629
75°	856	858	854	840	827	906
85°	169	172	167	159	145	209
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4208.9	4208.9	4208.9	4208.9	4208.9
2.5°	4233.8	4213.1	4174.3	4213.1	4193.7
5°	4220.0	4202.0	4164.6	4204.8	4182.6
7.5°	4200.6	4185.4	4148.0	4186.8	4164.6
10°	4172.9	4156.3	4120.4	4161.9	4139.7
12.5°	4135.6	4120.4	4085.8	4124.5	4105.1
15°	4095.5	4076.1	4044.3	4080.2	4066.4
17.5°	4040.1	4024.9	3993.1	4027.7	4012.4
20°	3982.0	3966.8	3935.0	3969.5	3952.9
22.5°	3915.6	3900.4	3867.2	3904.5	3887.9
25°	3839.5	3825.6	3795.2	3834.0	3813.2
27.5°	3759.2	3748.2	3715.0	3746.8	3734.3
30°	3667.9	3661.0	3625.0	3649.9	3638.9
32.5°	3575.2	3562.8	3537.9	3557.2	3546.2
35°	3471.4	3454.8	3438.2	3450.7	3431.3
37.5°	3360.8	3349.7	3331.7	3342.8	3320.6
40°	3240.4	3230.7	3216.9	3219.6	3207.2
42.5°	3115.9	3104.8	3093.7	3088.2	3074.4
45°	2985.8	2976.1	2965.1	2960.9	2940.1
47.5°	2844.7	2837.8	2830.8	2821.2	2805.9
50°	2692.5	2695.2	2682.8	2674.5	2648.2
52.5°	2529.2	2545.8	2527.8	2515.4	2500.2
55°	2361.8	2379.8	2364.6	2354.9	2338.3
57.5°	2195.8	2204.1	2194.4	2187.5	2165.3
60°	2020.1	2027.0	2020.1	2004.8	1993.8
62.5°	1838.8	1847.1	1833.3	1822.2	1807.0
65°	1647.9	1652.0	1649.2	1627.1	1607.7
67.5°	1455.5	1462.5	1454.2	1438.9	1419.6
70°	1263.2	1259.1	1252.2	1241.1	1216.2
72.5°	1059.8	1059.8	1058.5	1037.7	1025.2
75°	856.4	857.8	853.7	839.8	827.4
77.5°	653.1	668.3	657.2	643.4	629.5
80°	471.8	481.5	471.8	453.8	445.5
82.5°	301.6	315.5	307.2	289.2	286.4
85°	168.8	171.6	167.4	159.1	145.3
87.5°	63.6	66.4	67.8	55.3	48.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)