

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: P290171

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290171
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-L850-CD1-U
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

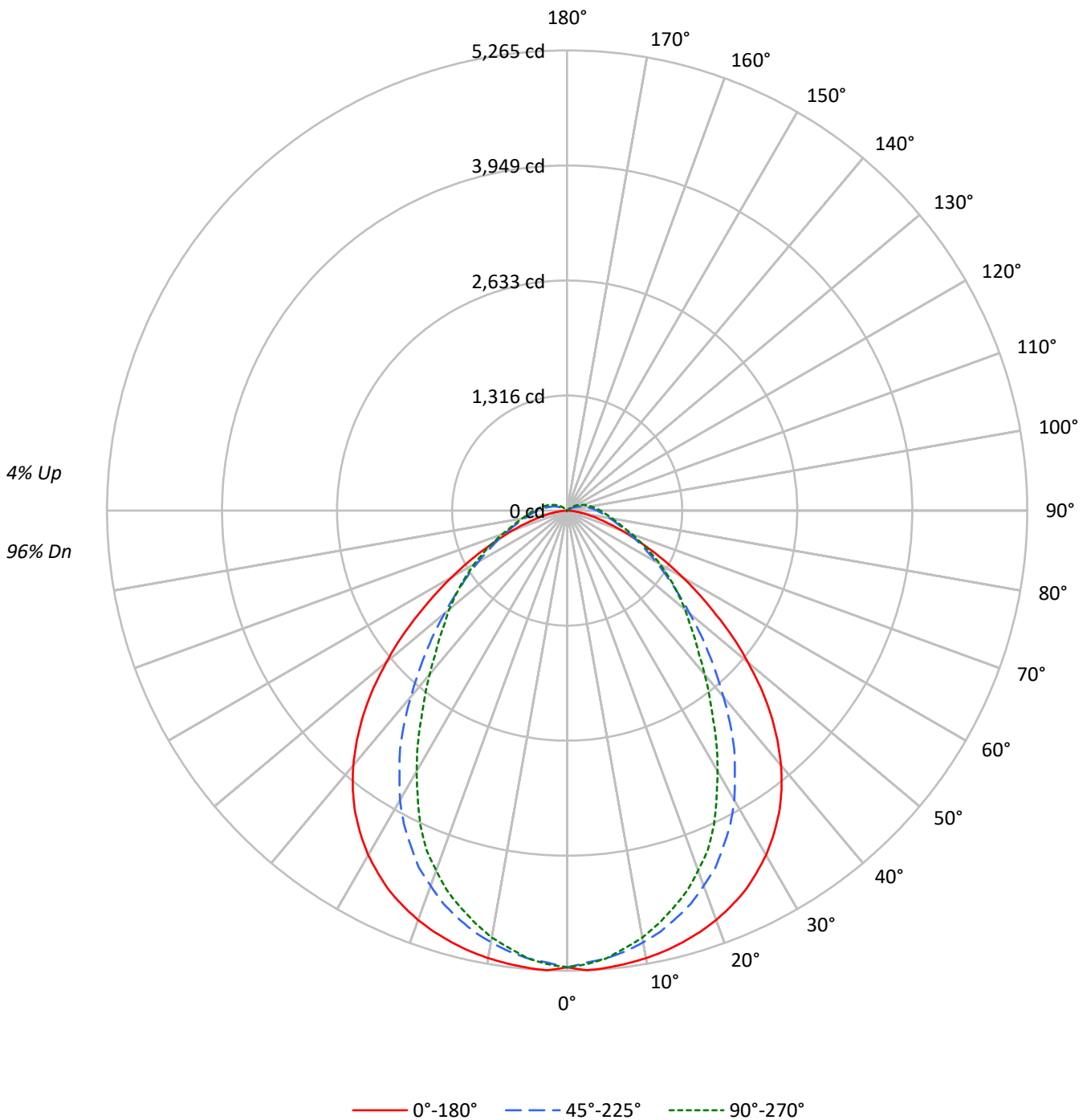
Lumens per Lamp: N/A
Luminaire Lumens: 11764.8 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

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°	168752	168752	168752
5°	169894	133499	123490
10°	169869	109543	95375
15°	169962	91600	75886
20°	170018	77156	61314
25°	169564	64860	49397
30°	167717	53983	38770
35°	164231	43969	30178
40°	157808	34626	23711
45°	147438	27062	18842
50°	132255	20923	15343
55°	113996	16286	12463
60°	94959	12775	10020
65°	75693	10054	7914
70°	59065	7961	6221
75°	44210	6468	4953
80°	31981	5334	4106
85°	19870	4499	3500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.6	4.2
10°-20°	1373.9	11.7
20°-30°	1980.0	16.8
30°-40°	2144.8	18.2
40°-50°	1899.7	16.1
50°-60°	1445.5	12.3
60°-70°	963.0	8.2
70°-80°	595.0	5.1
80°-90°	372.8	3.2
90°-100°	245.0	2.1
100°-110°	150.1	1.3
110°-120°	77.5	0.7
120°-130°	25.4	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°	3844.6	32.7
0°-40°	5989.4	50.9
0°-60°	9334.5	79.3
0°-90°	11265.3	95.8
90°-120°	472.5	4.0
90°-150°	499.5	4.2
90°-180°	499.0	4.2
0°-180°	11764.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5226	5226	5226	5226	5226	
5°	5251	5218	5143	5162	5143	499
15°	5112	5016	4827	4762	4703	1444
25°	4805	4580	4234	4053	3972	2211
35°	4227	3831	3336	3022	2910	2634
45°	3296	2780	2277	2104	2063	2528
55°	2085	1702	1464	1482	1486	1873
65°	1035	908	934	988	992	1045
75°	382	465	602	642	632	422
85°	66	239	407	448	441	81
90°	3	174	339	382	379	5
95°	7	123	281	325	324	5
105°	4	48	176	224	230	5
115°	4	4	90	140	152	4
125°	3	3	3	61	76	3
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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CATALOG NUMBER: 8SSRK-LN-12-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5225.9	5225.9	5225.9	5225.9	5225.9
2.5°	5264.6	5235.6	5176.1	5210.7	5194.1
5°	5250.8	5217.6	5142.9	5162.2	5142.9
7.5°	5228.7	5187.2	5087.5	5095.8	5050.2
10°	5199.6	5144.3	5015.6	5001.7	4960.2
12.5°	5162.2	5084.8	4934.0	4878.6	4838.5
15°	5112.4	5015.6	4827.4	4762.4	4702.9
17.5°	5055.7	4931.2	4712.6	4633.7	4563.1
20°	4985.1	4828.8	4568.7	4459.4	4381.9
22.5°	4899.4	4716.7	4426.2	4267.1	4204.8
25°	4805.3	4579.7	4233.8	4052.6	3972.3
27.5°	4682.1	4428.9	4044.3	3817.4	3702.5
30°	4552.1	4250.4	3824.3	3562.8	3441.0
32.5°	4395.7	4055.4	3569.7	3291.6	3183.7
35°	4226.9	3831.2	3335.9	3021.8	2909.7
37.5°	4027.7	3589.1	3057.8	2770.0	2671.8
40°	3809.1	3326.2	2781.1	2527.9	2450.4
42.5°	3560.0	3059.2	2520.9	2302.3	2235.9
45°	3295.8	2779.7	2277.4	2104.5	2063.0
47.5°	3008.0	2500.2	2049.1	1926.0	1895.5
50°	2698.0	2220.7	1827.7	1760.0	1761.3
52.5°	2403.3	1956.4	1639.6	1621.6	1617.4
55°	2085.1	1701.8	1463.9	1481.8	1486.0
57.5°	1797.3	1465.2	1314.4	1347.6	1351.8
60°	1523.4	1253.6	1171.9	1223.1	1230.0
62.5°	1272.9	1072.3	1050.2	1102.7	1101.4
65°	1034.9	907.6	933.9	987.9	992.0
67.5°	832.9	773.4	837.1	884.1	881.4
70°	661.4	653.1	743.0	792.8	790.0
72.5°	514.7	552.1	669.7	712.6	701.5
75°	381.9	464.9	601.9	642.0	632.3
77.5°	280.9	392.9	542.4	581.1	574.2
80°	192.3	333.4	491.2	531.3	523.0
82.5°	123.1	283.6	446.9	485.6	480.1
85°	66.4	239.4	406.8	448.3	441.4
87.5°	24.9	203.4	370.8	412.3	409.5
90°	2.8	174.3	339.0	381.9	379.1
92.5°	4.2	148.0	308.5	352.8	352.8
95°	6.9	123.1	280.9	325.1	323.8
97.5°	5.5	103.8	250.4	298.9	298.9
100°	5.5	85.8	222.8	271.2	274.0
102.5°	5.5	67.8	199.2	246.3	251.8
105°	4.2	48.4	175.7	224.1	229.7
107.5°	4.2	27.7	152.2	203.4	210.3
110°	4.2	6.9	131.4	181.3	189.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.2	4.2	110.7	160.5	168.8
115°	4.2	4.2	89.9	139.7	152.2
117.5°	2.8	2.8	66.4	121.8	132.8
120°	2.8	2.8	41.5	102.4	113.5
122.5°	2.8	2.8	18.0	81.6	96.9
125°	2.8	2.8	2.8	60.9	76.1
127.5°	2.8	2.8	1.4	36.0	54.0
130°	2.8	2.8	1.4	13.8	33.2
132.5°	2.8	2.8	1.4	1.4	9.7
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)