

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: P290150

Luminaire Tested: **8SSRK-LN-80-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290150
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-80-L940-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

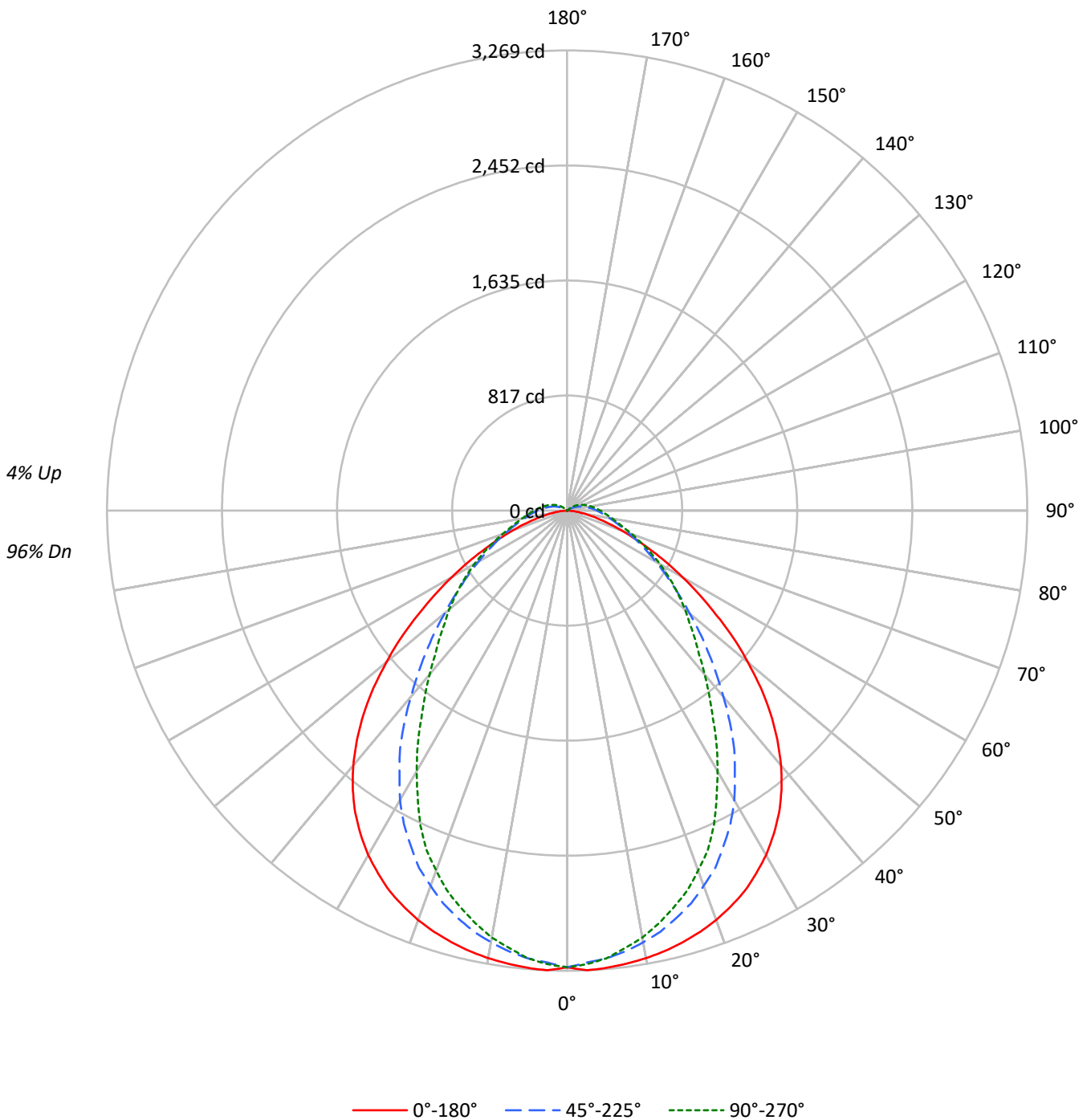
Lumens per Lamp: N/A
Luminaire Lumens: 7304.5 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 56.6491
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	98	98	98	98	98	98	96		
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	87	85	83	87	85	83	81		
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	78	74	71	78	74	71	69		
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	70	65	62	70	65	62	59		
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	63	58	54	63	58	54	52		
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	57	52	48	57	52	48	46		
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	52	47	43	52	47	43	41		
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	48	43	38	48	43	38	36		
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	44	39	35	44	39	35	33		
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	41	36	32	41	36	32	30		
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	38	33	29	38	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	104773	104773	104773
5°	105483	82886	76672
10°	105467	68013	59217
15°	105526	56872	47116
20°	105563	47904	38068
25°	105278	40270	30669
30°	104132	33517	24072
35°	101968	27300	18737
40°	97980	21498	14721
45°	91541	16802	11698
50°	82118	12991	9526
55°	70778	10112	7738
60°	58955	7932	6221
65°	47000	6243	4913
70°	36668	4943	3862
75°	27448	4016	3075
80°	19857	3312	2549
85°	12329	2794	2173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.6	4.2
10°-20°	853.0	11.7
20°-30°	1229.4	16.8
30°-40°	1331.7	18.2
40°-50°	1179.5	16.1
50°-60°	897.5	12.3
60°-70°	597.9	8.2
70°-80°	369.4	5.1
80°-90°	231.5	3.2
90°-100°	152.1	2.1
100°-110°	93.2	1.3
110°-120°	48.1	0.7
120°-130°	15.8	0.2
130°-140°	0.9	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°	2387.0	32.7
0°-40°	3718.7	50.9
0°-60°	5795.6	79.3
0°-90°	6994.4	95.8
90°-120°	293.4	4.0
90°-150°	310.1	4.2
90°-180°	310.0	4.2
0°-180°	7304.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3245	3245	3245	3245	3245	
5°	3260	3240	3193	3205	3193	310
15°	3174	3114	2997	2957	2920	897
25°	2984	2844	2629	2516	2466	1373
35°	2624	2379	2071	1876	1807	1636
45°	2046	1726	1414	1307	1281	1570
55°	1295	1057	909	920	923	1163
65°	643	564	580	613	616	649
75°	237	289	374	399	393	262
85°	41	149	253	278	274	50
90°	2	108	210	237	235	3
95°	4	76	174	202	201	3
105°	3	30	109	139	143	3
115°	3	3	56	87	94	2
125°	2	2	2	38	47	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°	3244.6	3244.6	3244.6	3244.6	3244.6
2.5°	3268.7	3250.7	3213.7	3235.2	3224.9
5°	3260.1	3239.5	3193.1	3205.1	3193.1
7.5°	3246.4	3220.6	3158.7	3163.9	3135.5
10°	3228.3	3194.0	3114.1	3105.5	3079.7
12.5°	3205.1	3157.0	3063.4	3029.0	3004.1
15°	3174.2	3114.1	2997.2	2956.9	2919.9
17.5°	3139.0	3061.7	2925.9	2877.0	2833.2
20°	3095.2	2998.1	2836.6	2768.7	2720.6
22.5°	3041.9	2928.5	2748.1	2649.3	2610.7
25°	2983.5	2843.5	2628.7	2516.2	2466.3
27.5°	2907.0	2749.8	2511.0	2370.1	2298.8
30°	2826.3	2639.0	2374.4	2212.1	2136.5
32.5°	2729.2	2517.9	2216.4	2043.7	1976.7
35°	2624.4	2378.7	2071.2	1876.2	1806.6
37.5°	2500.7	2228.4	1898.5	1719.8	1658.8
40°	2365.0	2065.2	1726.7	1569.5	1521.4
42.5°	2210.3	1899.4	1565.2	1429.5	1388.2
45°	2046.3	1725.8	1414.0	1306.6	1280.8
47.5°	1867.6	1552.3	1272.3	1195.8	1176.9
50°	1675.2	1378.8	1134.8	1092.7	1093.6
52.5°	1492.2	1214.7	1018.0	1006.8	1004.2
55°	1294.6	1056.6	908.9	920.0	922.6
57.5°	1115.9	909.7	816.1	836.7	839.3
60°	945.8	778.3	727.6	759.4	763.7
62.5°	790.3	665.8	652.0	684.7	683.8
65°	642.6	563.5	579.9	613.4	615.9
67.5°	517.2	480.2	519.7	548.9	547.2
70°	410.6	405.5	461.3	492.2	490.5
72.5°	319.6	342.8	415.8	442.4	435.5
75°	237.1	288.6	373.7	398.6	392.6
77.5°	174.4	244.0	336.7	360.8	356.5
80°	119.4	207.0	305.0	329.9	324.7
82.5°	76.5	176.1	277.5	301.5	298.1
85°	41.2	148.6	252.6	278.3	274.0
87.5°	15.5	126.3	230.2	256.0	254.3
90°	1.7	108.2	210.5	237.1	235.4
92.5°	2.6	91.9	191.6	219.1	219.1
95°	4.3	76.5	174.4	201.9	201.0
97.5°	3.4	64.4	155.5	185.6	185.6
100°	3.4	53.3	138.3	168.4	170.1
102.5°	3.4	42.1	123.7	152.9	156.3
105°	2.6	30.1	109.1	139.2	142.6
107.5°	2.6	17.2	94.5	126.3	130.6
110°	2.6	4.3	81.6	112.5	117.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	2.6	68.7	99.7	104.8
115°	2.6	2.6	55.8	86.8	94.5
117.5°	1.7	1.7	41.2	75.6	82.5
120°	1.7	1.7	25.8	63.6	70.4
122.5°	1.7	1.7	11.2	50.7	60.1
125°	1.7	1.7	1.7	37.8	47.2
127.5°	1.7	1.7	0.9	22.3	33.5
130°	1.7	1.7	0.9	8.6	20.6
132.5°	1.7	1.7	0.9	0.9	6.0
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)