

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: P290094

Luminaire Tested: **4SSRK-LN-30-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290094
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-30-L940-CD1-U
Description: 3000 LUMEN, 4 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: 2672.4 lumens
Efficiency: N/A
Efficacy: 131.0 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

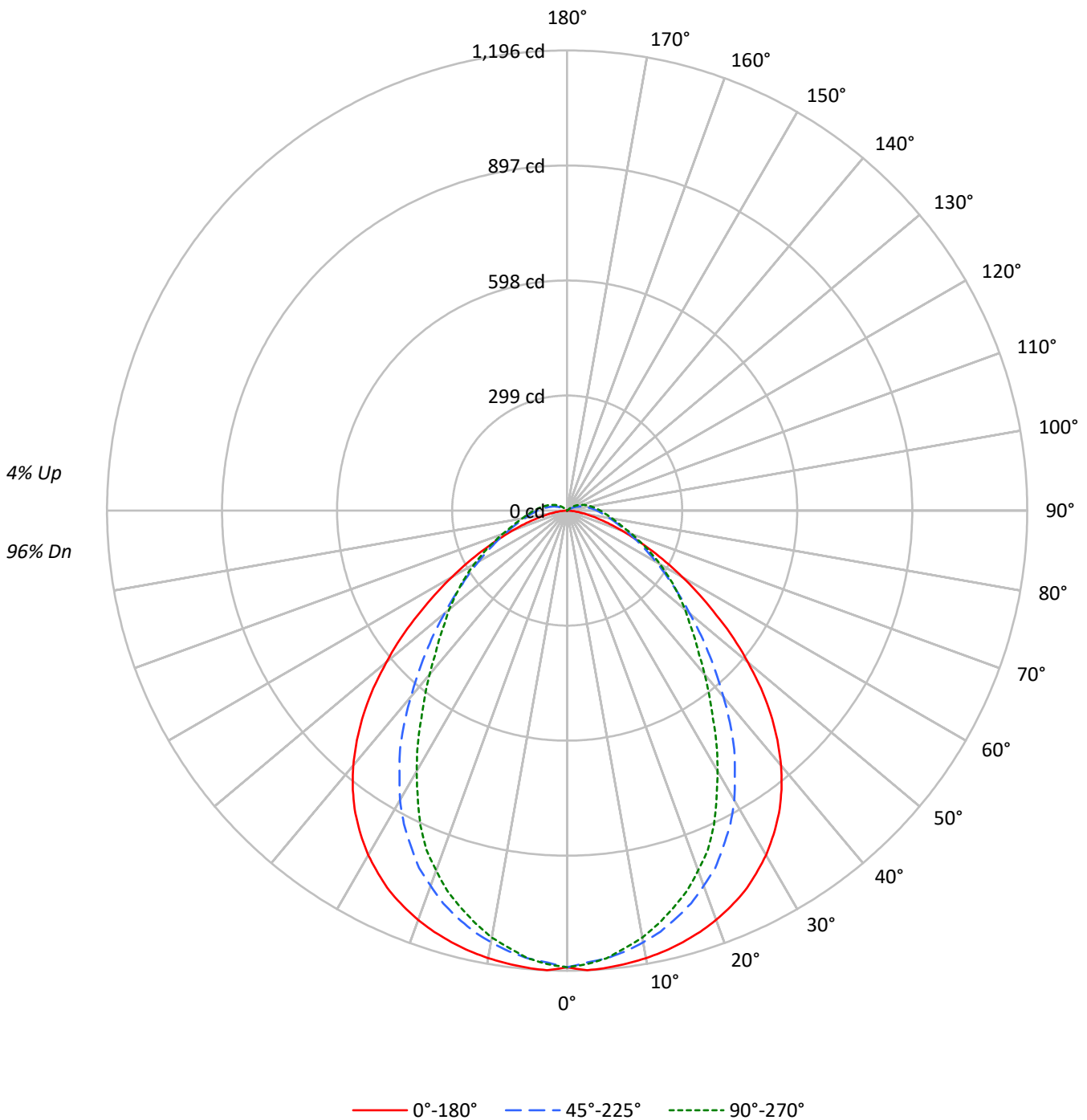
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	76666	76666	76666
5°	77042	60586	56101
10°	76891	49680	43328
15°	76789	41523	34476
20°	76665	34960	27856
25°	76297	29379	22441
30°	75298	24446	17613
35°	73557	19908	13711
40°	70478	15673	10772
45°	65638	12247	8560
50°	58667	9468	6971
55°	50331	7368	5663
60°	41683	5779	4552
65°	32980	4547	3595
70°	25449	3601	2827
75°	18723	2924	2250
80°	13146	2412	1865
85°	7579	2034	1591



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	4.2
10°-20°	312.1	11.7
20°-30°	449.8	16.8
30°-40°	487.2	18.2
40°-50°	431.5	16.1
50°-60°	328.3	12.3
60°-70°	218.7	8.2
70°-80°	135.1	5.1
80°-90°	84.7	3.2
90°-100°	55.6	2.1
100°-110°	34.1	1.3
110°-120°	17.6	0.7
120°-130°	5.8	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°	873.3	32.7
0°-40°	1360.5	50.9
0°-60°	2120.4	79.3
0°-90°	2558.9	95.8
90°-120°	107.3	4.0
90°-150°	113.4	4.2
90°-180°	113.0	4.2
0°-180°	2672.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1193	1185	1168	1173	1168	113
15°	1161	1139	1097	1082	1068	328
25°	1092	1040	962	921	902	502
35°	960	870	758	686	661	598
45°	749	631	517	478	469	574
55°	474	387	332	337	338	425
65°	235	206	212	224	225	237
75°	87	106	137	146	144	96
85°	15	54	92	102	100	18
90°	1	40	77	87	86	1
95°	2	28	64	74	74	1
105°	1	11	40	51	52	1
115°	1	1	20	32	35	1
125°	1	1	1	14	17	1
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°	1187.1	1187.1	1187.1	1187.1	1187.1
2.5°	1195.9	1189.3	1175.8	1183.6	1179.9
5°	1192.7	1185.2	1168.2	1172.6	1168.2
7.5°	1187.7	1178.3	1155.7	1157.5	1147.2
10°	1181.1	1168.5	1139.3	1136.2	1126.7
12.5°	1172.6	1155.0	1120.8	1108.2	1099.1
15°	1161.3	1139.3	1096.6	1081.8	1068.3
17.5°	1148.4	1120.1	1070.5	1052.6	1036.5
20°	1132.4	1096.9	1037.8	1013.0	995.4
22.5°	1112.9	1071.4	1005.4	969.3	955.1
25°	1091.5	1040.3	961.7	920.6	902.3
27.5°	1063.6	1006.1	918.7	867.1	841.0
30°	1034.0	965.5	868.7	809.3	781.6
32.5°	998.5	921.2	810.9	747.7	723.2
35°	960.2	870.3	757.8	686.4	661.0
37.5°	914.9	815.3	694.6	629.2	606.9
40°	865.2	755.6	631.7	574.2	556.6
42.5°	808.7	694.9	572.6	523.0	507.9
45°	748.6	631.4	517.3	478.0	468.6
47.5°	683.3	567.9	465.5	437.5	430.6
50°	612.9	504.4	415.2	399.8	400.1
52.5°	545.9	444.4	372.4	368.4	367.4
55°	473.6	386.6	332.5	336.6	337.6
57.5°	408.3	332.8	298.6	306.1	307.1
60°	346.0	284.7	266.2	277.8	279.4
62.5°	289.1	243.6	238.5	250.5	250.2
65°	235.1	206.2	212.1	224.4	225.3
67.5°	189.2	175.7	190.1	200.8	200.2
70°	150.2	148.3	168.8	180.1	179.5
72.5°	116.9	125.4	152.1	161.9	159.3
75°	86.7	105.6	136.7	145.8	143.6
77.5°	63.8	89.3	123.2	132.0	130.4
80°	43.7	75.7	111.6	120.7	118.8
82.5°	28.0	64.4	101.5	110.3	109.1
85°	15.1	54.4	92.4	101.8	100.3
87.5°	5.7	46.2	84.2	93.7	93.0
90°	0.6	39.6	77.0	86.7	86.1
92.5°	0.9	33.6	70.1	80.1	80.1
95°	1.6	28.0	63.8	73.9	73.5
97.5°	1.3	23.6	56.9	67.9	67.9
100°	1.3	19.5	50.6	61.6	62.2
102.5°	1.3	15.4	45.3	55.9	57.2
105°	0.9	11.0	39.9	50.9	52.2
107.5°	0.9	6.3	34.6	46.2	47.8
110°	0.9	1.6	29.9	41.2	43.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	0.9	25.1	36.5	38.3
115°	0.9	0.9	20.4	31.7	34.6
117.5°	0.6	0.6	15.1	27.7	30.2
120°	0.6	0.6	9.4	23.3	25.8
122.5°	0.6	0.6	4.1	18.5	22.0
125°	0.6	0.6	0.6	13.8	17.3
127.5°	0.6	0.6	0.3	8.2	12.3
130°	0.6	0.6	0.3	3.1	7.5
132.5°	0.6	0.6	0.3	0.3	2.2
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)