

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: P289798

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-TS-80-L940-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6580.3 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

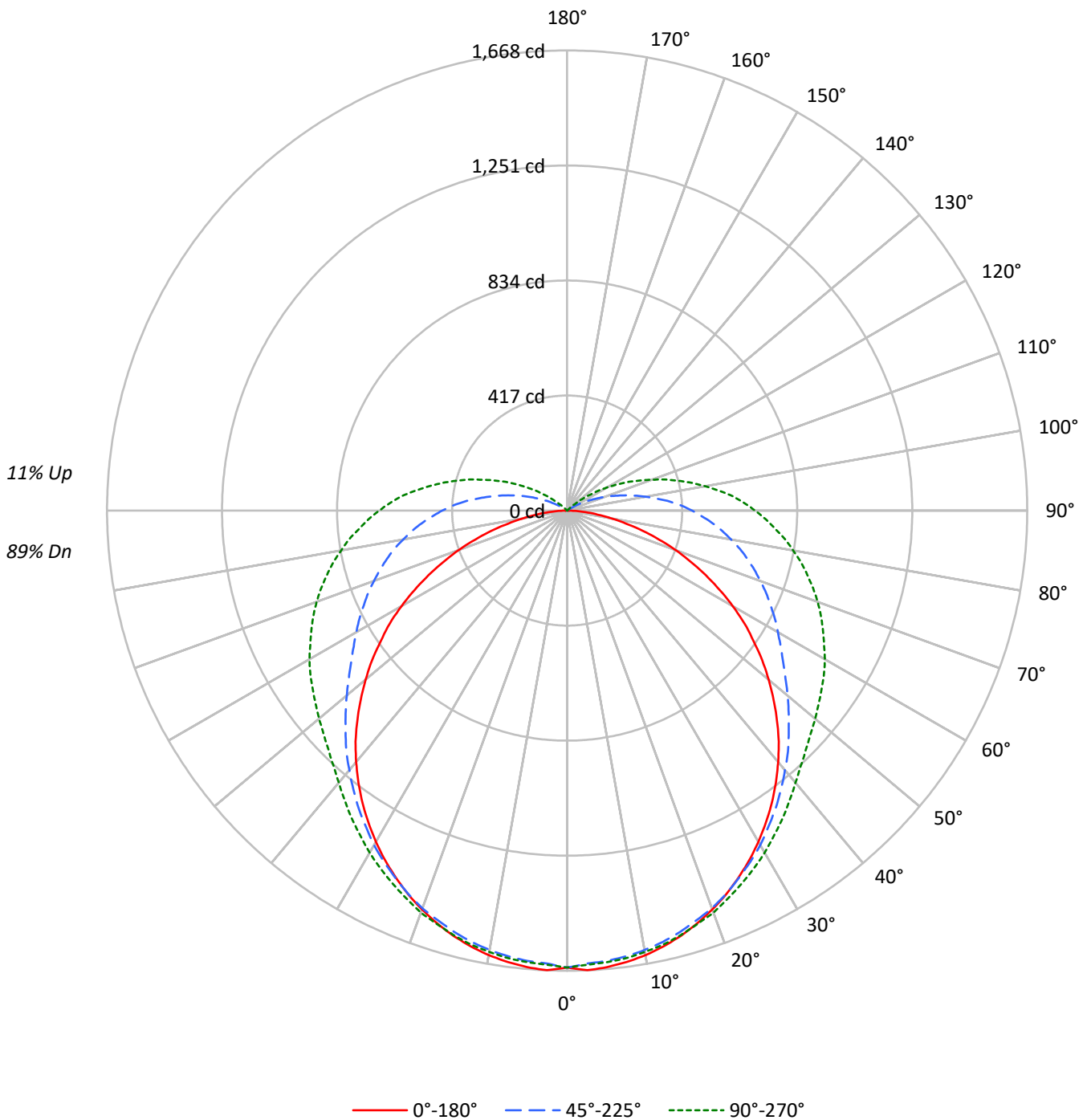
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	116	116	116	116	112	112	112	112	105	105	105		98	98	98		92	92	92	89
1	103	97	91	87	99	94	89	84	87	83	79		81	78	75		76	73	71	68
2	93	83	75	68	89	80	73	67	75	68	63		70	65	60		65	61	57	54
3	84	72	63	56	80	69	61	54	65	58	52		61	55	50		57	52	47	45
4	76	63	54	46	73	61	52	45	57	50	44		53	47	42		50	45	40	37
5	70	56	47	39	67	54	45	39	51	43	37		48	41	36		45	39	34	32
6	65	50	41	34	62	49	40	34	46	38	32		43	36	31		41	35	30	28
7	60	46	36	30	57	44	36	29	42	34	28		39	33	28		37	31	27	24
8	56	41	33	27	53	40	32	26	38	31	25		36	29	25		34	28	24	22
9	52	38	29	24	50	37	29	23	35	28	23		33	27	22		31	26	21	19
10	49	35	27	21	47	34	26	21	32	25	21		31	24	20		29	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	53484	53484	53484
5°	53756	42548	39461
10°	53464	35329	31236
15°	53036	30011	25700
20°	52474	25911	21697
25°	51808	22530	18577
30°	51084	19766	16136
35°	50269	17369	14122
40°	49293	15295	12461
45°	48117	13495	11181
50°	46745	11939	10222
55°	45088	10628	9445
60°	43216	9618	8790
65°	40527	8758	8163
70°	37364	7980	7611
75°	32923	7265	7059
80°	27291	6558	6529
85°	20049	5862	6002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	2.4
10°-20°	449.0	6.8
20°-30°	681.7	10.4
30°-40°	828.7	12.6
40°-50°	884.4	13.4
50°-60°	867.4	13.2
60°-70°	792.5	12.0
70°-80°	672.6	10.2
80°-90°	523.4	8.0
90°-100°	369.0	5.6
100°-110°	219.4	3.3
110°-120°	103.8	1.6
120°-130°	30.1	0.5
130°-140°	1.7	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°	1287.4	19.6
0°-40°	2116.1	32.2
0°-60°	3867.9	58.8
0°-90°	5856.3	89.0
90°-120°	692.2	10.5
90°-150°	724.0	11.0
90°-180°	724.0	11.0
0°-180°	6580.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1656	1656	1656	1656	1656	
5°	1661	1655	1639	1649	1643	158
15°	1595	1592	1582	1595	1593	450
25°	1468	1469	1471	1494	1494	677
35°	1294	1301	1318	1350	1362	809
45°	1076	1094	1136	1196	1224	830
55°	825	860	955	1080	1126	739
65°	554	625	814	969	1023	549
75°	284	431	676	844	901	301
85°	67	275	530	698	757	75
90°	5	204	453	623	681	6
95°	5	137	374	540	602	4
105°	4	37	213	362	417	5
115°	3	3	87	198	246	3
125°	3	2	4	66	97	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°	1656.3	1656.3	1656.3	1656.3	1656.3
2.5°	1667.5	1661.4	1643.4	1652.9	1647.7
5°	1661.4	1655.4	1639.1	1648.6	1643.4
7.5°	1650.3	1646.0	1629.7	1640.0	1636.5
10°	1636.5	1632.2	1617.6	1629.7	1624.5
12.5°	1617.6	1613.3	1601.3	1613.3	1611.6
15°	1595.3	1591.9	1581.6	1595.3	1592.7
17.5°	1568.7	1566.1	1557.5	1574.7	1571.2
20°	1538.6	1536.9	1534.3	1549.8	1550.6
22.5°	1506.0	1506.0	1504.2	1521.4	1522.3
25°	1468.2	1469.0	1470.7	1493.9	1493.9
27.5°	1429.5	1432.1	1436.4	1458.7	1463.9
30°	1386.5	1390.8	1400.3	1424.3	1432.1
32.5°	1341.0	1347.9	1358.2	1388.3	1396.0
35°	1293.8	1300.6	1317.8	1350.5	1361.6
37.5°	1243.1	1250.8	1273.1	1310.1	1324.7
40°	1189.8	1198.4	1228.5	1274.9	1287.8
42.5°	1135.7	1147.7	1184.7	1234.5	1254.2
45°	1075.6	1093.6	1135.7	1195.8	1224.2
47.5°	1015.4	1036.9	1089.3	1163.2	1197.5
50°	953.6	977.6	1042.9	1134.0	1173.5
52.5°	891.7	918.3	997.4	1106.5	1149.4
55°	824.7	859.9	955.3	1079.9	1126.2
57.5°	762.9	800.7	917.5	1053.2	1103.9
60°	693.3	741.4	882.3	1025.7	1079.0
62.5°	624.5	682.1	848.8	997.4	1049.8
65°	554.1	625.4	813.5	969.0	1023.2
67.5°	484.5	567.8	780.9	939.8	995.7
70°	418.4	518.0	744.8	909.8	966.5
72.5°	348.8	474.2	711.3	878.0	934.7
75°	284.4	431.3	676.1	843.6	901.2
77.5°	219.1	390.9	641.7	809.2	868.5
80°	164.1	353.1	603.9	773.2	831.6
82.5°	111.7	315.3	567.0	736.2	797.2
85°	67.0	274.9	530.0	698.4	756.8
87.5°	30.1	239.7	489.7	659.8	720.8
90°	5.2	203.6	452.7	622.8	681.2
92.5°	6.0	171.0	414.9	583.3	641.7
95°	5.2	136.6	373.7	539.5	602.2
97.5°	5.2	107.4	329.9	496.5	554.1
100°	4.3	79.9	287.8	451.0	507.7
102.5°	4.3	56.7	250.0	406.3	463.0
105°	4.3	36.9	213.1	361.7	416.7
107.5°	4.3	20.6	177.0	318.7	374.6
110°	4.3	7.7	144.3	280.1	326.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.4	3.4	112.5	237.1	285.2
115°	3.4	3.4	86.8	198.4	245.7
117.5°	3.4	2.6	59.3	162.4	205.3
120°	3.4	2.6	36.9	129.7	166.7
122.5°	2.6	1.7	18.0	96.2	133.2
125°	2.6	1.7	4.3	66.1	97.1
127.5°	2.6	0.9	0.0	39.5	67.0
130°	1.7	0.9	0.0	18.9	39.5
132.5°	1.7	0.9	0.0	3.4	17.2
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)