

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: P289797

Luminaire Tested: **8SSRK-TS-80-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289797
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-L935-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 90 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6424.7 lumens
Efficiency: N/A
Efficacy: 113.4 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

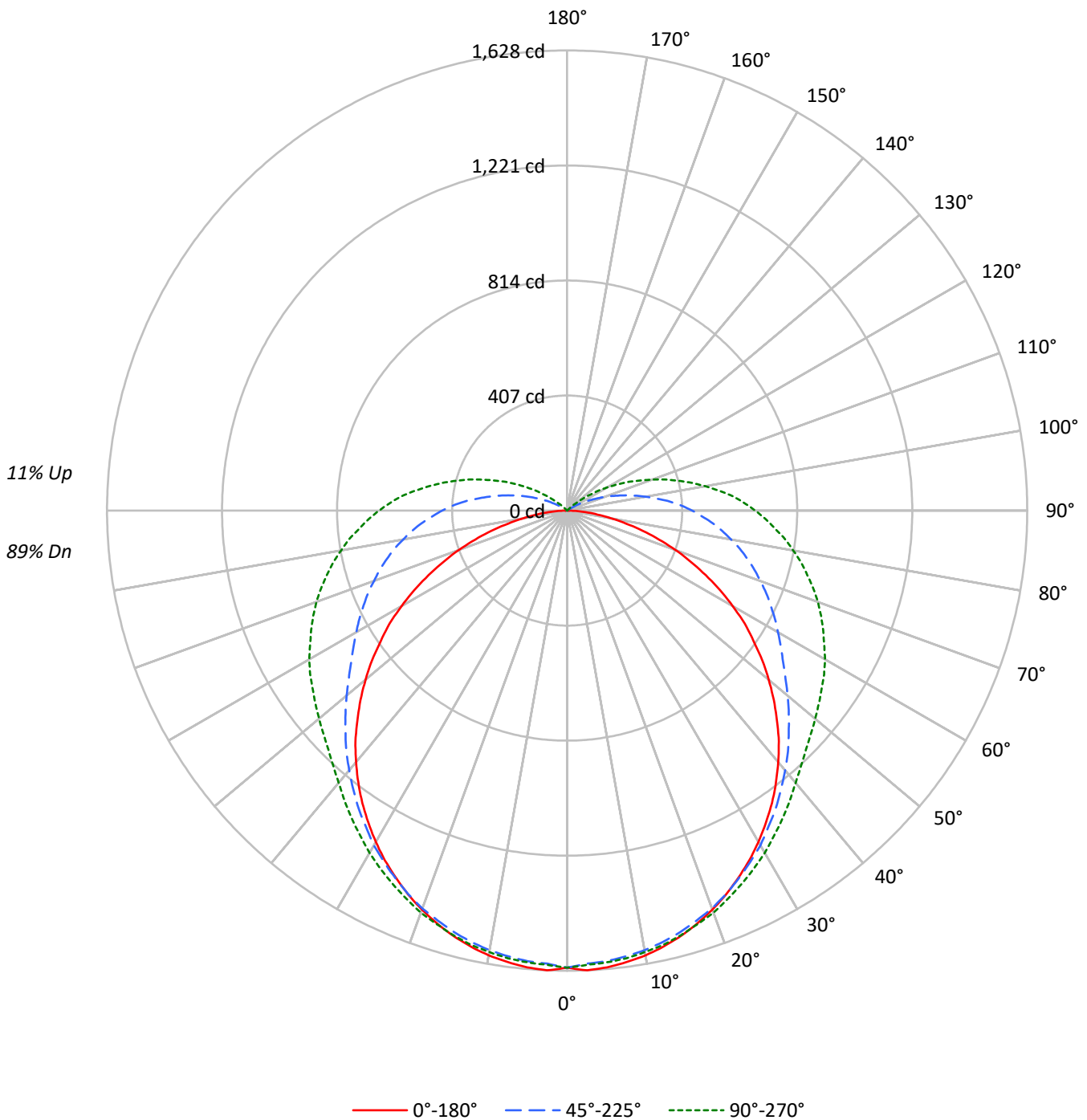
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	52219	52219	52219
5°	52488	41541	38527
10°	52200	34495	30498
15°	51782	29301	25093
20°	51233	25298	21185
25°	50580	21999	18138
30°	49879	19299	15754
35°	49080	16960	13788
40°	48128	14933	12166
45°	46976	13176	10916
50°	45637	11657	9980
55°	44022	10377	9222
60°	42194	9390	8582
65°	39569	8551	7970
70°	36480	7792	7430
75°	32136	7093	6892
80°	26643	6403	6375
85°	19571	5724	5860



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	2.4
10°-20°	438.3	6.8
20°-30°	665.6	10.4
30°-40°	809.1	12.6
40°-50°	863.5	13.4
50°-60°	846.9	13.2
60°-70°	773.7	12.0
70°-80°	656.7	10.2
80°-90°	511.0	8.0
90°-100°	360.3	5.6
100°-110°	214.2	3.3
110°-120°	101.4	1.6
120°-130°	29.4	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°	1257.0	19.6
0°-40°	2066.1	32.2
0°-60°	3776.4	58.8
0°-90°	5717.8	89.0
90°-120°	675.8	10.5
90°-150°	706.9	11.0
90°-180°	707.0	11.0
0°-180°	6424.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1617	1617	1617	1617	1617	
5°	1622	1616	1600	1610	1604	154
15°	1558	1554	1544	1558	1555	439
25°	1433	1434	1436	1459	1459	661
35°	1263	1270	1287	1318	1329	790
45°	1050	1068	1109	1168	1195	810
55°	805	840	933	1054	1100	721
65°	541	611	794	946	999	536
75°	278	421	660	824	880	294
85°	65	268	518	682	739	73
90°	5	199	442	608	665	6
95°	5	133	365	527	588	4
105°	4	36	208	353	407	4
115°	3	3	85	194	240	3
125°	2	2	4	65	95	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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CATALOG NUMBER: 8SSRK-TS-80-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1617.1	1617.1	1617.1	1617.1	1617.1
2.5°	1628.0	1622.2	1604.5	1613.8	1608.7
5°	1622.2	1616.3	1600.3	1609.6	1604.5
7.5°	1611.3	1607.1	1591.1	1601.2	1597.8
10°	1597.8	1593.6	1579.4	1591.1	1586.1
12.5°	1579.4	1575.2	1563.4	1575.2	1573.5
15°	1557.6	1554.2	1544.2	1557.6	1555.1
17.5°	1531.6	1529.1	1520.7	1537.4	1534.1
20°	1502.2	1500.5	1498.0	1513.1	1514.0
22.5°	1470.3	1470.3	1468.7	1485.4	1486.3
25°	1433.4	1434.3	1436.0	1458.6	1458.6
27.5°	1395.7	1398.2	1402.4	1424.2	1429.2
30°	1353.8	1357.9	1367.2	1390.7	1398.2
32.5°	1309.3	1316.0	1326.1	1355.4	1363.0
35°	1263.2	1269.9	1286.7	1318.5	1329.4
37.5°	1213.7	1221.2	1243.0	1279.1	1293.4
40°	1161.7	1170.1	1199.4	1244.7	1257.3
42.5°	1108.8	1120.6	1156.6	1205.3	1224.6
45°	1050.1	1067.7	1108.8	1167.5	1195.2
47.5°	991.4	1012.4	1063.5	1135.7	1169.2
50°	931.0	954.5	1018.3	1107.2	1145.7
52.5°	870.6	896.6	973.8	1080.3	1122.3
55°	805.2	839.6	932.7	1054.3	1099.6
57.5°	744.8	781.7	895.8	1028.3	1077.8
60°	676.9	723.8	861.4	1001.5	1053.5
62.5°	609.8	666.0	828.7	973.8	1025.0
65°	541.0	610.6	794.3	946.1	999.0
67.5°	473.1	554.4	762.4	917.6	972.1
70°	408.5	505.8	727.2	888.2	943.6
72.5°	340.5	463.0	694.5	857.2	912.6
75°	277.6	421.1	660.1	823.7	879.9
77.5°	213.9	381.6	626.6	790.1	848.0
80°	160.2	344.7	589.6	754.9	811.9
82.5°	109.0	307.8	553.6	718.8	778.4
85°	65.4	268.4	517.5	681.9	738.9
87.5°	29.4	234.0	478.1	644.2	703.7
90°	5.0	198.8	442.0	608.1	665.1
92.5°	5.9	166.9	405.1	569.5	626.6
95°	5.0	133.4	364.9	526.7	588.0
97.5°	5.0	104.8	322.1	484.8	541.0
100°	4.2	78.0	281.0	440.3	495.7
102.5°	4.2	55.4	244.1	396.7	452.1
105°	4.2	36.1	208.0	353.1	406.8
107.5°	4.2	20.1	172.8	311.2	365.7
110°	4.2	7.5	140.9	273.4	318.7



TEST NUMBER: P289797

CATALOG NUMBER: 8SSRK-TS-80-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.4	3.4	109.9	231.5	278.5
115°	3.4	3.4	84.7	193.8	239.9
117.5°	3.4	2.5	57.9	158.5	200.5
120°	3.4	2.5	36.1	126.7	162.7
122.5°	2.5	1.7	17.6	93.9	130.0
125°	2.5	1.7	4.2	64.6	94.8
127.5°	2.5	0.8	0.0	38.6	65.4
130°	1.7	0.8	0.0	18.5	38.6
132.5°	1.7	0.8	0.0	3.4	16.8
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)