

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: P289786

Luminaire Tested: **8SSRK-TS-50-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289786
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-50-L840-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4732.3 lumens
Efficiency: N/A
Efficacy: 138.4 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

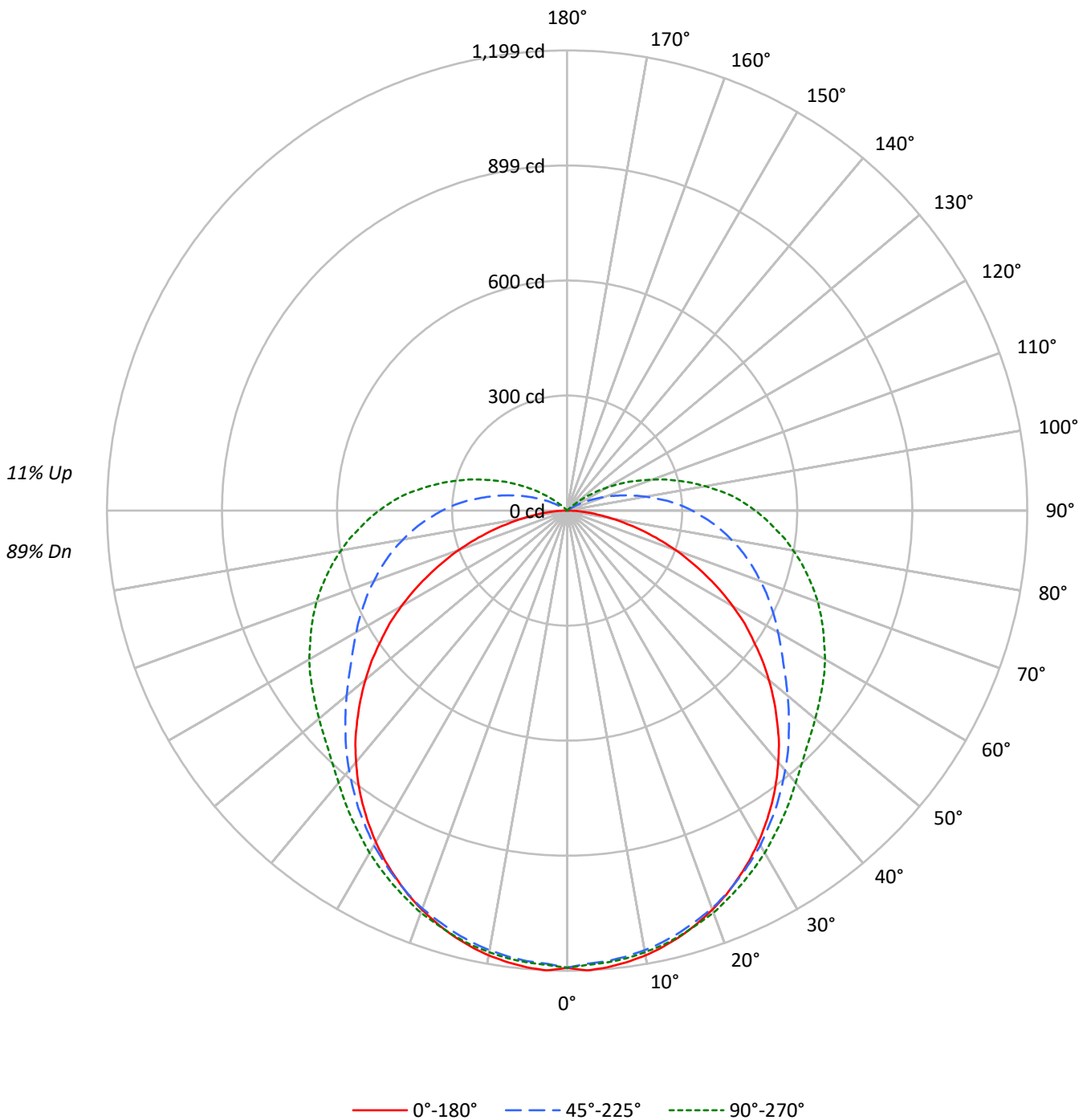
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	38462	38462	38462
5°	38662	30599	28380
10°	38449	25407	22464
15°	38142	21582	18482
20°	37737	18634	15604
25°	37256	16203	13360
30°	36741	14215	11604
35°	36150	12491	10156
40°	35451	11000	8961
45°	34603	9705	8041
50°	33618	8586	7351
55°	32426	7643	6794
60°	31080	6917	6321
65°	29146	6299	5870
70°	26871	5739	5473
75°	23674	5225	5077
80°	19625	4716	4695
85°	14424	4216	4316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	2.4
10°-20°	322.9	6.8
20°-30°	490.3	10.4
30°-40°	596.0	12.6
40°-50°	636.1	13.4
50°-60°	623.8	13.2
60°-70°	569.9	12.0
70°-80°	483.7	10.2
80°-90°	376.4	8.0
90°-100°	265.4	5.6
100°-110°	157.8	3.3
110°-120°	74.7	1.6
120°-130°	21.6	0.5
130°-140°	1.2	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°	925.9	19.6
0°-40°	1521.8	32.2
0°-60°	2781.6	58.8
0°-90°	4211.6	89.0
90°-120°	497.8	10.5
90°-150°	520.7	11.0
90°-180°	521.0	11.0
0°-180°	4732.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1191	1191	1191	1191	1191	
5°	1195	1190	1179	1186	1182	113
15°	1147	1145	1137	1147	1145	324
25°	1056	1056	1058	1074	1074	487
35°	930	935	948	971	979	582
45°	774	786	817	860	880	597
55°	593	618	687	777	810	531
65°	398	450	585	697	736	395
75°	204	310	486	607	648	217
85°	48	198	381	502	544	54
90°	4	146	326	448	490	5
95°	4	98	269	388	433	3
105°	3	27	153	260	300	3
115°	2	2	62	143	177	3
125°	2	1	3	48	70	2
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°	1191.1	1191.1	1191.1	1191.1	1191.1
2.5°	1199.2	1194.9	1181.9	1188.7	1185.0
5°	1194.9	1190.5	1178.8	1185.6	1181.9
7.5°	1186.8	1183.7	1172.0	1179.4	1176.9
10°	1176.9	1173.8	1163.3	1172.0	1168.3
12.5°	1163.3	1160.3	1151.6	1160.3	1159.0
15°	1147.3	1144.8	1137.4	1147.3	1145.4
17.5°	1128.1	1126.3	1120.1	1132.5	1130.0
20°	1106.5	1105.3	1103.4	1114.5	1115.2
22.5°	1083.0	1083.0	1081.8	1094.1	1094.8
25°	1055.8	1056.5	1057.7	1074.4	1074.4
27.5°	1028.0	1029.9	1033.0	1049.0	1052.8
30°	997.2	1000.2	1007.0	1024.3	1029.9
32.5°	964.4	969.3	976.8	998.4	1003.9
35°	930.4	935.4	947.7	971.2	979.2
37.5°	894.0	899.5	915.6	942.2	952.7
40°	855.7	861.8	883.5	916.8	926.1
42.5°	816.7	825.4	852.0	887.8	902.0
45°	773.5	786.5	816.7	860.0	880.4
47.5°	730.3	745.7	783.4	836.5	861.2
50°	685.8	703.1	750.0	815.5	843.9
52.5°	641.3	660.4	717.3	795.7	826.6
55°	593.1	618.4	687.0	776.6	810.0
57.5°	548.6	575.8	659.8	757.4	793.9
60°	498.6	533.2	634.5	737.7	776.0
62.5°	449.2	490.5	610.4	717.3	755.0
65°	398.5	449.8	585.1	696.9	735.8
67.5°	348.4	408.4	561.6	675.9	716.0
70°	300.9	372.5	535.6	654.3	695.0
72.5°	250.8	341.0	511.5	631.4	672.2
75°	204.5	310.1	486.2	606.7	648.1
77.5°	157.5	281.1	461.5	582.0	624.6
80°	118.0	253.9	434.3	556.0	598.0
82.5°	80.3	226.7	407.8	529.5	573.3
85°	48.2	197.7	381.2	502.3	544.3
87.5°	21.6	172.4	352.2	474.5	518.3
90°	3.7	146.4	325.6	447.9	489.9
92.5°	4.3	122.9	298.4	419.5	461.5
95°	3.7	98.2	268.7	388.0	433.1
97.5°	3.7	77.2	237.2	357.1	398.5
100°	3.1	57.5	207.0	324.4	365.1
102.5°	3.1	40.8	179.8	292.2	333.0
105°	3.1	26.6	153.2	260.1	299.6
107.5°	3.1	14.8	127.3	229.2	269.4
110°	3.1	5.6	103.8	201.4	234.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	2.5	80.9	170.5	205.1
115°	2.5	2.5	62.4	142.7	176.7
117.5°	2.5	1.9	42.6	116.8	147.7
120°	2.5	1.9	26.6	93.3	119.9
122.5°	1.9	1.2	13.0	69.2	95.8
125°	1.9	1.2	3.1	47.6	69.8
127.5°	1.9	0.6	0.0	28.4	48.2
130°	1.2	0.6	0.0	13.6	28.4
132.5°	1.2	0.6	0.0	2.5	12.4
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)