

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: P289735

Luminaire Tested: **4SSRK-TS-20-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289735
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: 4SSRK-TS-20-L950-CD1-U
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 90 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1695.6 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

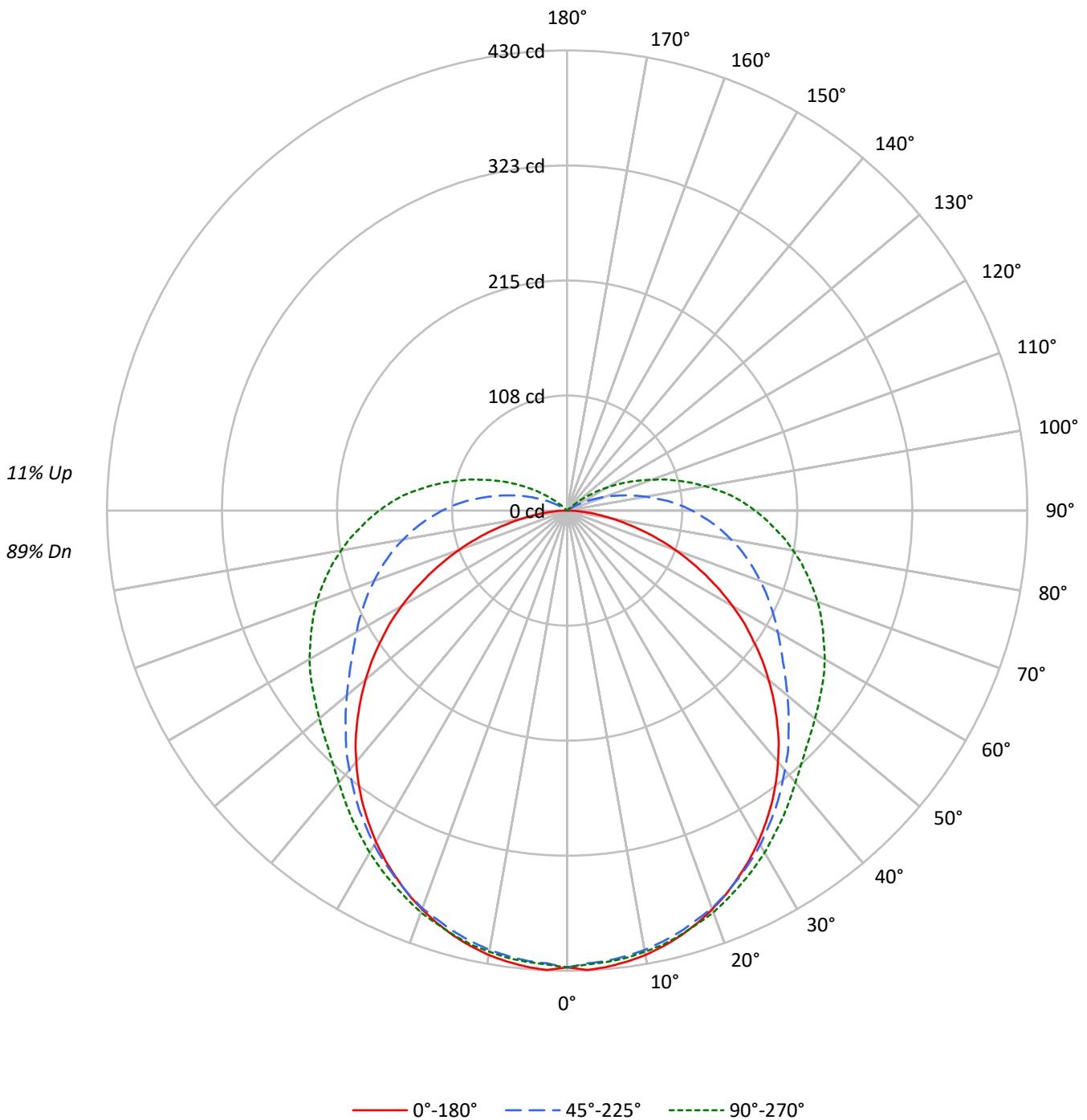
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	27564	27564	27564
5°	27653	21907	20338
10°	27453	18175	16098
15°	27183	15430	13245
20°	26843	13320	11183
25°	26444	11578	9575
30°	26019	10153	8315
35°	25541	8922	7279
40°	24975	7853	6421
45°	24296	6927	5761
50°	23518	6128	5268
55°	22583	5455	4868
60°	21516	4934	4529
65°	20032	4493	4206
70°	18265	4094	3921
75°	15829	3726	3638
80°	12725	3363	3365
85°	8684	3007	3093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.4	2.4
10°-20°	115.7	6.8
20°-30°	175.7	10.4
30°-40°	213.5	12.6
40°-50°	227.9	13.4
50°-60°	223.5	13.2
60°-70°	204.2	12.0
70°-80°	173.3	10.2
80°-90°	134.9	8.0
90°-100°	95.1	5.6
100°-110°	56.5	3.3
110°-120°	26.8	1.6
120°-130°	7.7	0.5
130°-140°	0.4	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°	331.7	19.6
0°-40°	545.3	32.2
0°-60°	996.7	58.8
0°-90°	1509.0	89.0
90°-120°	178.4	10.5
90°-150°	186.6	11.0
90°-180°	187.0	11.0
0°-180°	1695.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	427	427	427	427	427	
5°	428	427	422	425	424	41
15°	411	410	408	411	410	116
25°	378	378	379	385	385	174
35°	333	335	340	348	351	208
45°	277	282	293	308	315	214
55°	212	222	246	278	290	190
65°	143	161	210	250	264	141
75°	73	111	174	217	232	78
85°	17	71	137	180	195	19
90°	1	52	117	160	176	2
95°	1	35	96	139	155	1
105°	1	10	55	93	107	1
115°	1	1	22	51	63	1
125°	1	0	1	17	25	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°	426.8	426.8	426.8	426.8	426.8
2.5°	429.7	428.1	423.5	425.9	424.6
5°	428.1	426.6	422.4	424.8	423.5
7.5°	425.2	424.1	419.9	422.6	421.7
10°	421.7	420.6	416.8	419.9	418.6
12.5°	416.8	415.7	412.6	415.7	415.3
15°	411.1	410.2	407.5	411.1	410.4
17.5°	404.2	403.5	401.3	405.8	404.9
20°	396.5	396.0	395.4	399.3	399.6
22.5°	388.0	388.0	387.6	392.0	392.3
25°	378.3	378.5	379.0	385.0	385.0
27.5°	368.3	369.0	370.1	375.9	377.2
30°	357.3	358.4	360.8	367.0	369.0
32.5°	345.5	347.3	350.0	357.7	359.7
35°	333.4	335.1	339.6	348.0	350.9
37.5°	320.3	322.3	328.1	337.6	341.3
40°	306.6	308.8	316.5	328.5	331.8
42.5°	292.6	295.7	305.3	318.1	323.2
45°	277.1	281.8	292.6	308.1	315.4
47.5°	261.7	267.2	280.7	299.7	308.6
50°	245.7	251.9	268.7	292.2	302.4
52.5°	229.8	236.6	257.0	285.1	296.2
55°	212.5	221.6	246.2	278.3	290.2
57.5°	196.6	206.3	236.4	271.4	284.5
60°	178.6	191.0	227.3	264.3	278.0
62.5°	160.9	175.8	218.7	257.0	270.5
65°	142.8	161.2	209.6	249.7	263.6
67.5°	124.8	146.3	201.2	242.2	256.6
70°	107.8	133.5	191.9	234.4	249.0
72.5°	89.9	122.2	183.3	226.2	240.8
75°	73.3	111.1	174.2	217.4	232.2
77.5°	56.4	100.7	165.4	208.5	223.8
80°	42.3	91.0	155.6	199.2	214.3
82.5°	28.8	81.2	146.1	189.7	205.4
85°	17.3	70.8	136.6	180.0	195.0
87.5°	7.7	61.8	126.2	170.0	185.7
90°	1.3	52.5	116.7	160.5	175.5
92.5°	1.5	44.1	106.9	150.3	165.4
95°	1.3	35.2	96.3	139.0	155.2
97.5°	1.3	27.7	85.0	127.9	142.8
100°	1.1	20.6	74.2	116.2	130.8
102.5°	1.1	14.6	64.4	104.7	119.3
105°	1.1	9.5	54.9	93.2	107.4
107.5°	1.1	5.3	45.6	82.1	96.5
110°	1.1	2.0	37.2	72.2	84.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	0.9	29.0	61.1	73.5
115°	0.9	0.9	22.4	51.1	63.3
117.5°	0.9	0.7	15.3	41.8	52.9
120°	0.9	0.7	9.5	33.4	42.9
122.5°	0.7	0.4	4.6	24.8	34.3
125°	0.7	0.4	1.1	17.0	25.0
127.5°	0.7	0.2	0.0	10.2	17.3
130°	0.4	0.2	0.0	4.9	10.2
132.5°	0.4	0.2	0.0	0.9	4.4
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)