

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: P289643

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-TB-20-L950-CD1-U
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1780.4 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

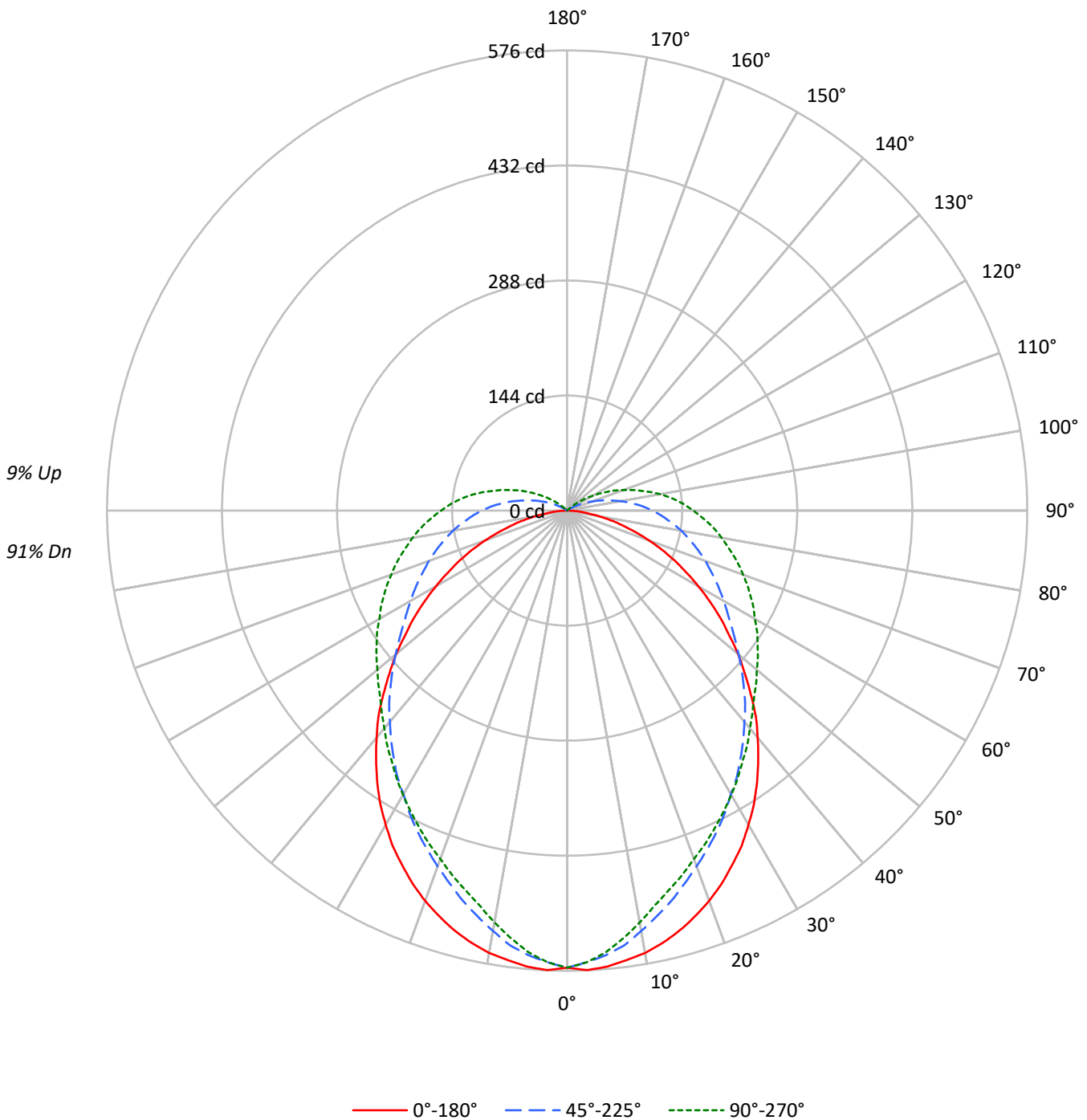
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P289643

CATALOG NUMBER: 4SSRK-TB-20-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P289643

CATALOG NUMBER: 4SSRK-TB-20-L950-CD1-U

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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91				
1	104	98	93	89	100	95	90	86	89	85	82	84	80	78	78	76	74	71				
2	94	85	77	71	90	82	75	69	77	71	66	72	67	63	68	64	60	58				
3	85	74	65	58	82	72	64	57	67	60	55	63	58	53	60	55	51	48				
4	78	65	56	49	75	63	55	48	60	52	47	56	50	45	53	48	43	41				
5	72	58	49	42	69	57	48	41	53	46	40	50	44	39	48	42	38	35				
6	66	53	43	37	64	51	42	36	48	41	35	46	39	34	43	38	33	31				
7	61	48	39	32	59	46	38	32	44	37	31	42	35	30	40	34	29	27				
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	31	26	24				
9	54	40	32	26	52	39	31	26	37	30	25	35	29	24	34	28	24	22				
10	50	37	29	24	48	36	28	23	34	28	23	33	27	22	31	26	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36948	36948	36948
5°	37012	28970	26653
10°	36600	23298	20132
15°	35984	19137	15875
20°	35198	15964	12985
25°	34196	13542	10891
30°	33069	11535	9257
35°	31746	9941	7943
40°	30238	8562	6888
45°	28514	7401	6041
50°	26735	6390	5399
55°	24889	5551	4881
60°	22902	4908	4418
65°	20860	4384	4040
70°	18468	3921	3688
75°	15570	3508	3373
80°	12184	3136	3084
85°	7680	2756	2815



TEST NUMBER: P289643

CATALOG NUMBER: 4SSRK-TB-20-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	3.0
10°-20°	144.4	8.1
20°-30°	208.9	11.7
30°-40°	243.0	13.6
40°-50°	247.3	13.9
50°-60°	230.1	12.9
60°-70°	200.4	11.3
70°-80°	163.1	9.2
80°-90°	123.6	6.9
90°-100°	85.7	4.8
100°-110°	50.4	2.8
110°-120°	23.6	1.3
120°-130°	6.7	0.4
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°	406.2	22.8
0°-40°	649.2	36.5
0°-60°	1126.6	63.3
0°-90°	1613.6	90.6
90°-120°	159.6	9.0
90°-150°	166.7	9.4
90°-180°	167.0	9.4
0°-180°	1780.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	572	572	572	572	572	
5°	573	568	559	559	555	54
15°	544	530	505	496	492	153
25°	489	468	443	440	438	225
35°	414	393	378	382	383	259
45°	325	313	313	325	331	251
55°	234	233	250	280	291	209
65°	149	161	204	241	253	147
75°	72	105	164	202	215	77
85°	15	66	125	165	178	18
90°	0	48	106	145	158	1
95°	0	31	87	126	139	0
105°	0	7	50	84	96	0
115°	0	0	20	46	56	0
125°	0	0	1	15	22	0
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°	1	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P289643

CATALOG NUMBER: 4SSRK-TB-20-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	572.1	572.1	572.1	572.1	572.1
2.5°	575.7	573.0	565.8	568.5	565.8
5°	573.0	568.5	558.6	558.6	555.0
7.5°	567.6	562.2	548.7	544.2	539.7
10°	562.2	554.1	534.3	528.9	523.5
12.5°	554.1	542.4	519.9	511.7	506.3
15°	544.2	529.8	505.4	496.4	491.9
17.5°	532.5	516.2	489.2	482.0	478.4
20°	519.9	500.9	473.9	467.6	464.0
22.5°	505.4	483.8	458.6	454.1	451.4
25°	489.2	467.6	443.3	439.7	437.9
27.5°	473.0	449.6	427.1	425.3	424.4
30°	454.1	431.6	409.9	410.8	410.8
32.5°	435.2	412.6	395.5	397.3	397.3
35°	414.4	392.8	378.4	382.0	382.9
37.5°	392.8	373.9	362.2	367.6	370.3
40°	371.2	354.1	345.1	353.2	355.9
42.5°	349.6	333.4	329.8	339.7	343.3
45°	325.2	312.6	312.6	325.2	330.7
47.5°	301.8	293.7	296.4	312.6	320.7
50°	279.3	273.0	280.2	300.9	309.9
52.5°	255.0	253.2	264.9	290.1	300.9
55°	234.2	233.3	250.5	280.2	291.0
57.5°	211.7	214.4	237.9	270.3	282.0
60°	190.1	195.5	226.1	260.4	271.2
62.5°	168.5	179.3	215.3	250.5	263.1
65°	148.7	161.3	204.5	240.6	253.2
67.5°	128.8	145.1	193.7	231.5	244.2
70°	109.0	130.6	183.8	221.6	234.2
72.5°	89.2	118.0	173.9	211.7	225.2
75°	72.1	105.4	164.0	201.8	215.3
77.5°	55.9	95.5	154.1	193.7	205.4
80°	40.5	84.7	145.1	183.8	196.4
82.5°	26.1	75.7	135.1	173.9	187.4
85°	15.3	65.8	125.2	164.9	177.5
87.5°	6.3	55.9	116.2	155.0	167.6
90°	0.0	47.8	106.3	145.1	157.7
92.5°	0.0	39.6	97.3	136.0	148.7
95°	0.0	30.6	87.4	126.1	138.7
97.5°	0.0	23.4	77.5	116.2	128.8
100°	0.0	18.0	67.6	104.5	118.0
102.5°	0.0	12.6	57.7	93.7	107.2
105°	0.0	7.2	49.6	83.8	95.5
107.5°	0.0	3.6	41.4	73.9	85.6
110°	0.0	0.9	33.3	64.0	74.8



TEST NUMBER: P289643

CATALOG NUMBER: 4SSRK-TB-20-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	26.1	55.0	65.8
115°	0.0	0.0	19.8	45.9	55.9
117.5°	0.0	0.0	13.5	37.8	46.8
120°	0.0	0.0	8.1	29.7	37.8
122.5°	0.0	0.0	3.6	22.5	29.7
125°	0.0	0.0	0.9	15.3	22.5
127.5°	0.0	0.0	0.0	9.0	15.3
130°	0.0	0.0	0.0	4.5	9.0
132.5°	0.0	0.0	0.0	0.9	3.6
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°	0.9	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)