

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-L940-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-L940-CD1-U
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1671.7 lumens
Efficiency: N/A
Efficacy: 122.0 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

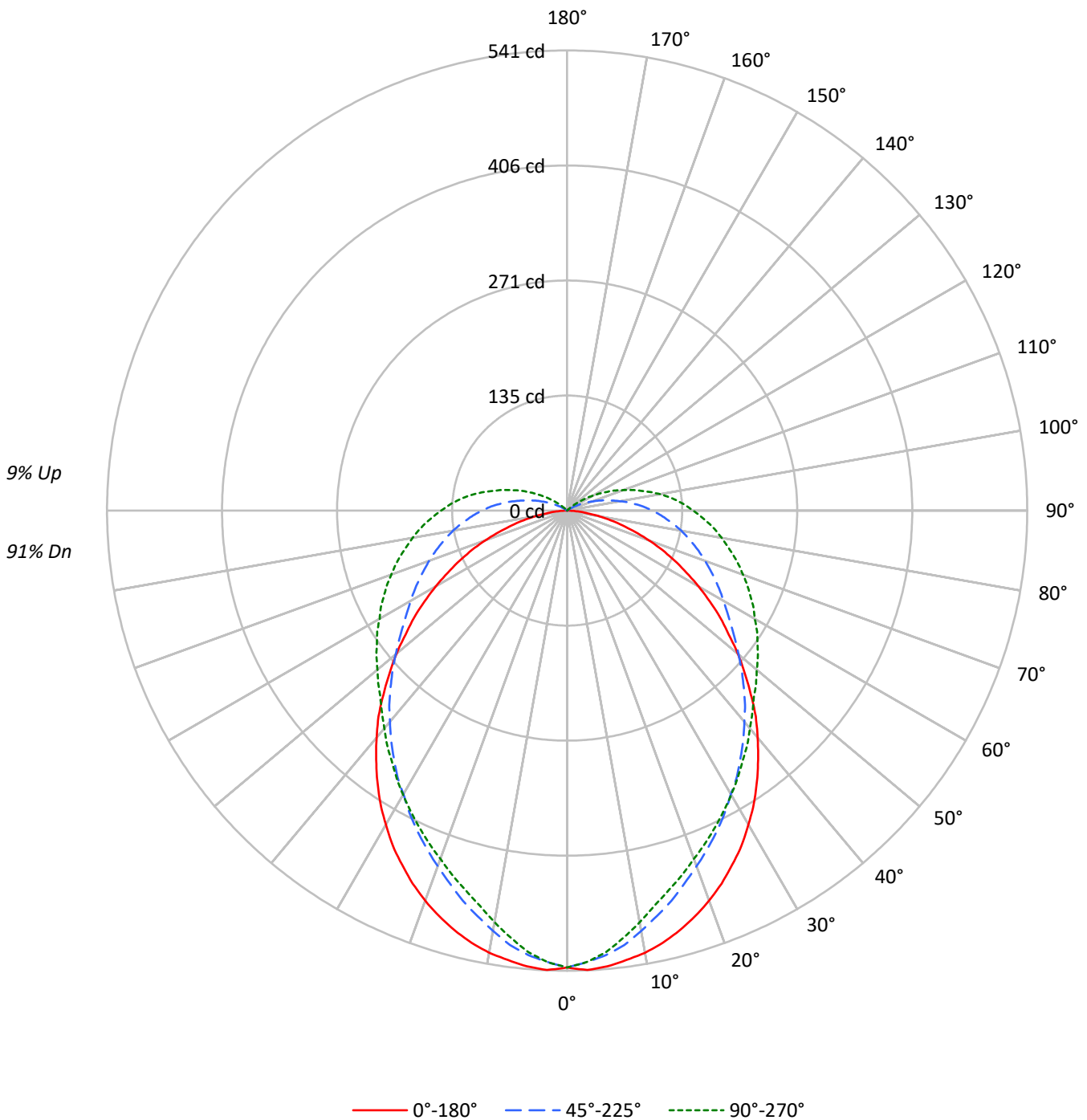
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	34694	34694	34694
5°	34752	27202	25025
10°	34367	21877	18901
15°	33789	17971	14907
20°	33045	14991	12193
25°	32113	12714	10224
30°	31051	10832	8694
35°	29807	9334	7457
40°	28388	8039	6468
45°	26778	6949	5672
50°	25098	6000	5070
55°	23369	5212	4583
60°	21504	4609	4148
65°	19583	4116	3792
70°	17350	3682	3463
75°	14620	3294	3168
80°	11462	2944	2896
85°	7228	2588	2644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	3.0
10°-20°	135.6	8.1
20°-30°	196.1	11.7
30°-40°	228.1	13.6
40°-50°	232.2	13.9
50°-60°	216.1	12.9
60°-70°	188.1	11.3
70°-80°	153.2	9.2
80°-90°	116.0	6.9
90°-100°	80.5	4.8
100°-110°	47.3	2.8
110°-120°	22.2	1.3
120°-130°	6.3	0.4
130°-140°	0.3	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°	381.4	22.8
0°-40°	609.5	36.5
0°-60°	1057.8	63.3
0°-90°	1515.1	90.6
90°-120°	149.9	9.0
90°-150°	156.5	9.4
90°-180°	157.0	9.4
0°-180°	1671.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	537	537	537	537	537	
5°	538	534	524	524	521	51
15°	511	497	475	466	462	144
25°	459	439	416	413	411	212
35°	389	369	355	359	360	243
45°	305	294	294	305	310	236
55°	220	219	235	263	273	196
65°	140	151	192	226	238	138
75°	68	99	154	190	202	72
85°	14	62	118	155	167	17
90°	0	45	100	136	148	1
95°	0	29	82	118	130	0
105°	0	7	46	79	90	0
115°	0	0	19	43	52	0
125°	0	0	1	14	21	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	537.2	537.2	537.2	537.2	537.2
2.5°	540.6	538.0	531.3	533.8	531.3
5°	538.0	533.8	524.5	524.5	521.1
7.5°	533.0	527.9	515.2	511.0	506.7
10°	527.9	520.3	501.7	496.6	491.5
12.5°	520.3	509.3	488.1	480.5	475.4
15°	511.0	497.4	474.6	466.1	461.9
17.5°	500.0	484.7	459.4	452.6	449.2
20°	488.1	470.4	445.0	439.1	435.7
22.5°	474.6	454.3	430.6	426.4	423.8
25°	459.4	439.1	416.2	412.8	411.1
27.5°	444.1	422.1	401.0	399.3	398.4
30°	426.4	405.2	384.9	385.8	385.8
32.5°	408.6	387.5	371.4	373.1	373.1
35°	389.1	368.8	355.3	358.7	359.5
37.5°	368.8	351.1	340.1	345.2	347.7
40°	348.5	332.5	324.0	331.6	334.2
42.5°	328.2	313.0	309.6	318.9	322.3
45°	305.4	293.5	293.5	305.4	310.5
47.5°	283.4	275.8	278.3	293.5	301.2
50°	262.2	256.3	263.1	282.6	291.0
52.5°	239.4	237.7	248.7	272.4	282.6
55°	219.9	219.1	235.2	263.1	273.2
57.5°	198.8	201.3	223.3	253.8	264.8
60°	178.5	183.6	212.3	244.5	254.6
62.5°	158.2	168.3	202.2	235.2	247.0
65°	139.6	151.4	192.0	225.9	237.7
67.5°	121.0	136.2	181.9	217.4	229.3
70°	102.4	122.7	172.6	208.1	219.9
72.5°	83.8	110.8	163.3	198.8	211.5
75°	67.7	99.0	154.0	189.5	202.2
77.5°	52.4	89.7	144.7	181.9	192.9
80°	38.1	79.5	136.2	172.6	184.4
82.5°	24.5	71.1	126.9	163.3	176.0
85°	14.4	61.8	117.6	154.8	166.7
87.5°	5.9	52.4	109.1	145.5	157.3
90°	0.0	44.8	99.8	136.2	148.0
92.5°	0.0	37.2	91.4	127.7	139.6
95°	0.0	28.8	82.1	118.4	130.3
97.5°	0.0	22.0	72.8	109.1	121.0
100°	0.0	16.9	63.4	98.1	110.8
102.5°	0.0	11.8	54.1	88.0	100.7
105°	0.0	6.8	46.5	78.7	89.7
107.5°	0.0	3.4	38.9	69.4	80.4
110°	0.0	0.8	31.3	60.1	70.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	24.5	51.6	61.8
115°	0.0	0.0	18.6	43.1	52.4
117.5°	0.0	0.0	12.7	35.5	44.0
120°	0.0	0.0	7.6	27.9	35.5
122.5°	0.0	0.0	3.4	21.1	27.9
125°	0.0	0.0	0.8	14.4	21.1
127.5°	0.0	0.0	0.0	8.5	14.4
130°	0.0	0.0	0.0	4.2	8.5
132.5°	0.0	0.0	0.0	0.8	3.4
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°	0.8	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)