

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-L930-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-L930-CD1-U
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1537.6 lumens
Efficiency: N/A
Efficacy: 112.2 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

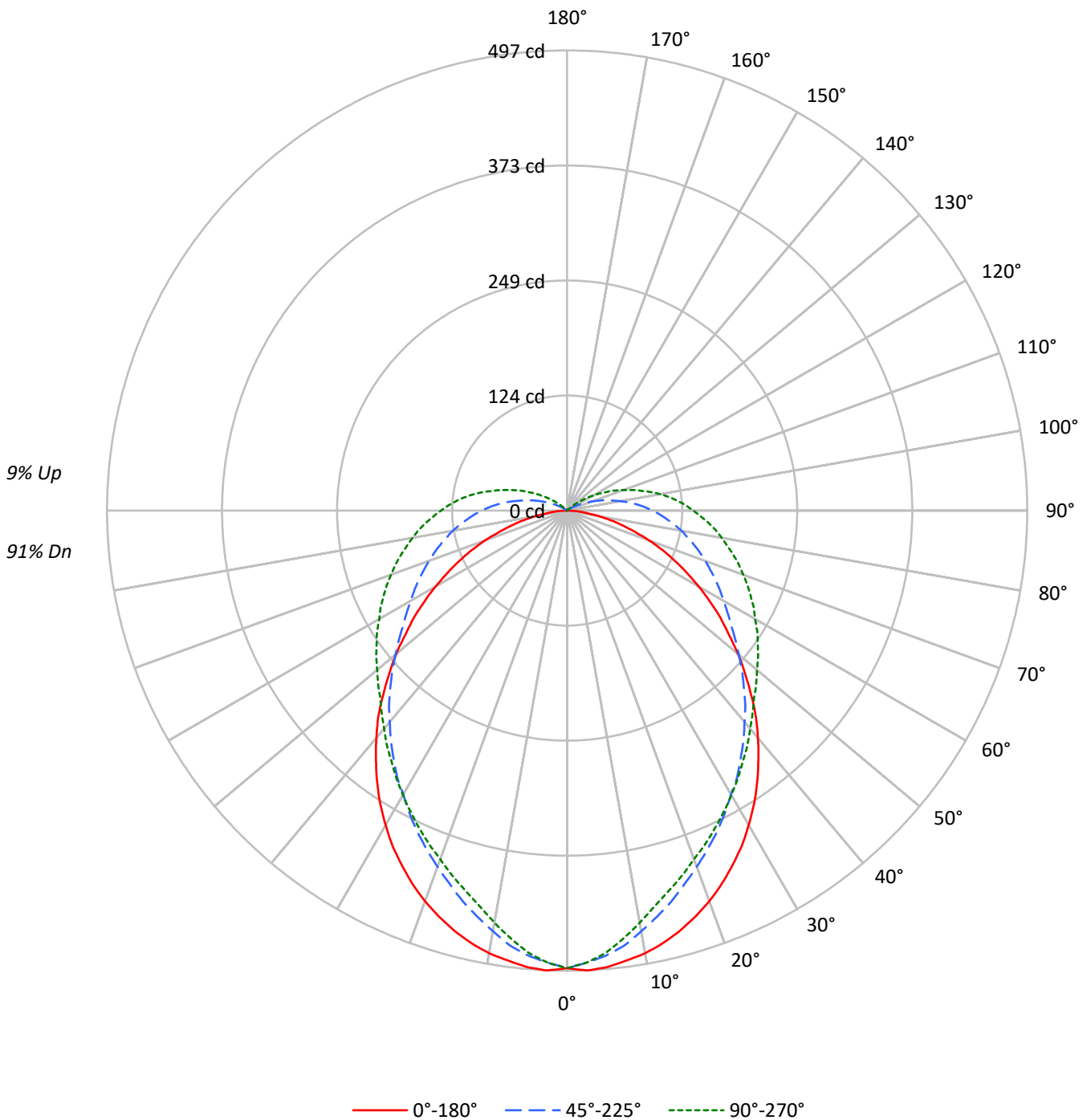
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	31910	31910	31910
5°	31968	25018	23018
10°	31607	20120	17386
15°	31078	16528	13712
20°	30398	13788	11214
25°	29533	11694	9406
30°	28561	9962	7995
35°	27417	8585	6860
40°	26116	7394	5949
45°	24630	6392	5217
50°	23088	5519	4664
55°	21499	4793	4215
60°	19781	4240	3816
65°	18012	3786	3489
70°	15960	3385	3186
75°	13432	3029	2914
80°	10529	2708	2663
85°	6626	2382	2431



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.7	3.0
10°-20°	124.7	8.1
20°-30°	180.4	11.7
30°-40°	209.8	13.6
40°-50°	213.6	13.9
50°-60°	198.7	12.9
60°-70°	173.1	11.3
70°-80°	140.9	9.2
80°-90°	106.7	6.9
90°-100°	74.0	4.8
100°-110°	43.5	2.8
110°-120°	20.4	1.3
120°-130°	5.8	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°	350.8	22.8
0°-40°	560.6	36.5
0°-60°	973.0	63.3
0°-90°	1393.6	90.6
90°-120°	137.9	9.0
90°-150°	144.0	9.4
90°-180°	144.0	9.4
0°-180°	1537.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	494	494	494	494	494	
5°	495	491	482	482	479	47
15°	470	458	436	429	425	132
25°	422	404	383	380	378	195
35°	358	339	327	330	331	224
45°	281	270	270	281	286	217
55°	202	202	216	242	251	181
65°	128	139	177	208	219	127
75°	62	91	142	174	186	66
85°	13	57	108	142	153	15
90°	0	41	92	125	136	1
95°	0	26	76	109	120	0
105°	0	6	43	72	82	0
115°	0	0	17	40	48	0
125°	0	0	1	13	20	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°	494.1	494.1	494.1	494.1	494.1
2.5°	497.2	494.9	488.7	491.0	488.7
5°	494.9	491.0	482.4	482.4	479.3
7.5°	490.2	485.5	473.9	470.0	466.1
10°	485.5	478.5	461.4	456.8	452.1
12.5°	478.5	468.4	449.0	442.0	437.3
15°	470.0	457.5	436.5	428.7	424.9
17.5°	459.9	445.9	422.5	416.3	413.2
20°	449.0	432.6	409.3	403.8	400.7
22.5°	436.5	417.8	396.1	392.2	389.8
25°	422.5	403.8	382.8	379.7	378.2
27.5°	408.5	388.3	368.8	367.3	366.5
30°	392.2	372.7	354.0	354.8	354.8
32.5°	375.8	356.4	341.6	343.1	343.1
35°	357.9	339.3	326.8	329.9	330.7
37.5°	339.3	322.9	312.8	317.5	319.8
40°	320.6	305.8	298.0	305.0	307.4
42.5°	301.9	287.9	284.8	293.4	296.5
45°	280.9	270.0	270.0	280.9	285.6
47.5°	260.7	253.7	256.0	270.0	277.0
50°	241.2	235.8	242.0	259.9	267.7
52.5°	220.2	218.7	228.8	250.6	259.9
55°	202.3	201.5	216.3	242.0	251.3
57.5°	182.9	185.2	205.4	233.4	243.6
60°	164.2	168.9	195.3	224.9	234.2
62.5°	145.5	154.8	186.0	216.3	227.2
65°	128.4	139.3	176.6	207.8	218.7
67.5°	111.3	125.3	167.3	200.0	210.9
70°	94.2	112.8	158.7	191.4	202.3
72.5°	77.0	101.9	150.2	182.9	194.5
75°	62.2	91.0	141.6	174.3	186.0
77.5°	48.2	82.5	133.1	167.3	177.4
80°	35.0	73.1	125.3	158.7	169.6
82.5°	22.6	65.4	116.7	150.2	161.8
85°	13.2	56.8	108.2	142.4	153.3
87.5°	5.4	48.2	100.4	133.8	144.7
90°	0.0	41.2	91.8	125.3	136.2
92.5°	0.0	34.2	84.0	117.5	128.4
95°	0.0	26.5	75.5	108.9	119.8
97.5°	0.0	20.2	66.9	100.4	111.3
100°	0.0	15.6	58.4	90.3	101.9
102.5°	0.0	10.9	49.8	80.9	92.6
105°	0.0	6.2	42.8	72.4	82.5
107.5°	0.0	3.1	35.8	63.8	73.9
110°	0.0	0.8	28.8	55.2	64.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	22.6	47.5	56.8
115°	0.0	0.0	17.1	39.7	48.2
117.5°	0.0	0.0	11.7	32.7	40.5
120°	0.0	0.0	7.0	25.7	32.7
122.5°	0.0	0.0	3.1	19.5	25.7
125°	0.0	0.0	0.8	13.2	19.5
127.5°	0.0	0.0	0.0	7.8	13.2
130°	0.0	0.0	0.0	3.9	7.8
132.5°	0.0	0.0	0.0	0.8	3.1
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)