

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-L935-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-L935-CD1-U
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1632.2 lumens
Efficiency: N/A
Efficacy: 119.1 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

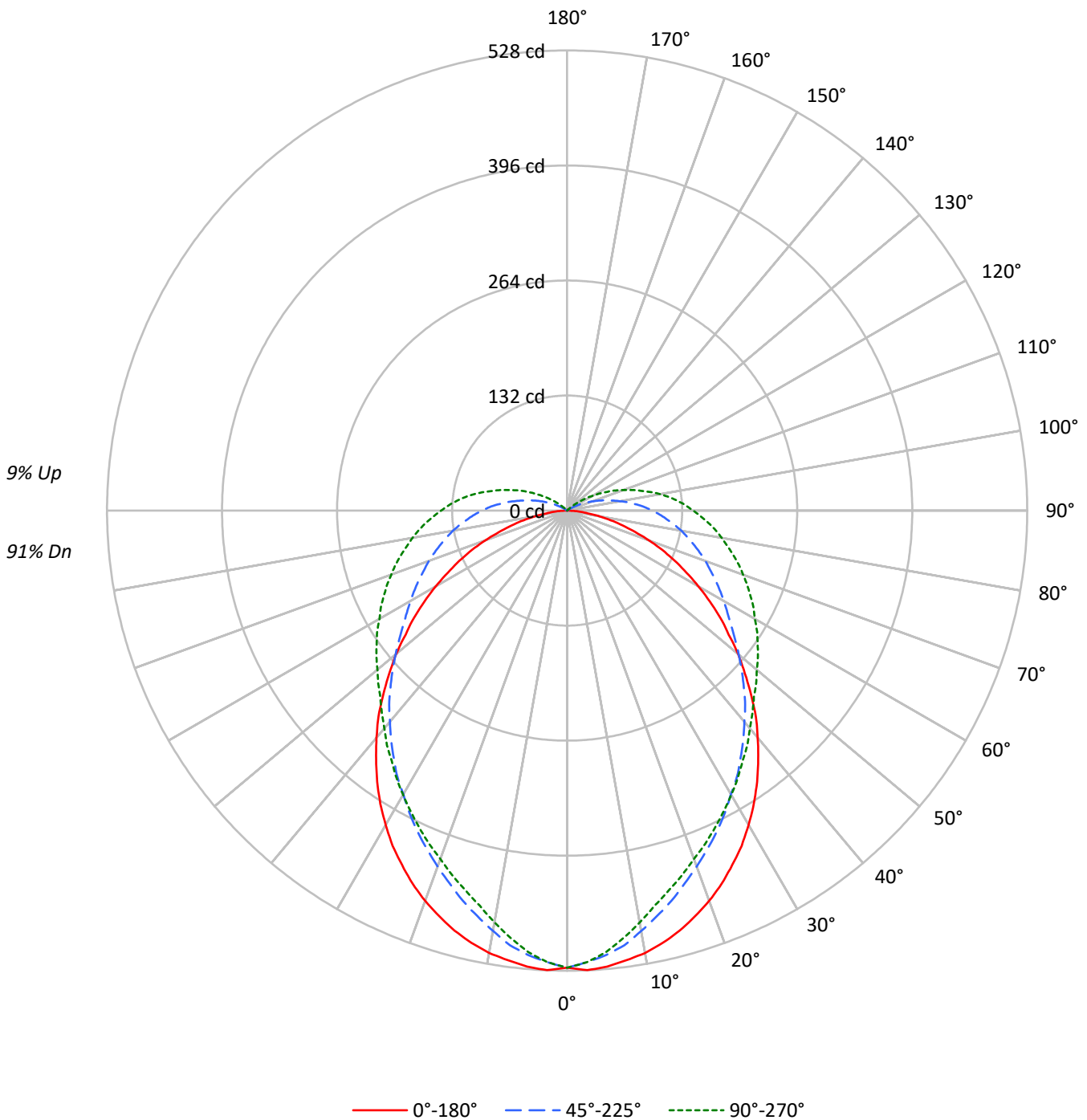
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	33874	33874	33874
5°	33931	26559	24434
10°	33553	21358	18455
15°	32989	17547	14555
20°	32266	14637	11905
25°	31351	12415	9983
30°	30316	10575	8486
35°	29103	9113	7281
40°	27721	7848	6315
45°	26146	6785	5537
50°	24504	5858	4950
55°	22817	5088	4475
60°	20998	4500	4050
65°	19120	4019	3703
70°	16926	3594	3381
75°	14274	3215	3092
80°	11191	2875	2828
85°	7027	2527	2581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	3.0
10°-20°	132.3	8.1
20°-30°	191.5	11.7
30°-40°	222.7	13.6
40°-50°	226.7	13.9
50°-60°	211.0	12.9
60°-70°	183.7	11.3
70°-80°	149.5	9.2
80°-90°	113.3	6.9
90°-100°	78.5	4.8
100°-110°	46.2	2.8
110°-120°	21.7	1.3
120°-130°	6.2	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°	372.4	22.8
0°-40°	595.1	36.5
0°-60°	1032.8	63.3
0°-90°	1479.3	90.6
90°-120°	146.4	9.0
90°-150°	152.9	9.4
90°-180°	153.0	9.4
0°-180°	1632.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	525	521	512	512	509	50
15°	499	486	463	455	451	141
25°	448	429	406	403	401	207
35°	380	360	347	350	351	237
45°	298	287	287	298	303	230
55°	215	214	230	257	267	192
65°	136	148	188	220	232	135
75°	66	97	150	185	197	71
85°	14	60	115	151	163	16
90°	0	44	98	133	144	1
95°	0	28	80	116	127	0
105°	0	7	45	77	88	0
115°	0	0	18	42	51	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°	524.5	524.5	524.5	524.5	524.5
2.5°	527.8	525.3	518.7	521.2	518.7
5°	525.3	521.2	512.1	512.1	508.8
7.5°	520.4	515.4	503.0	498.9	494.7
10°	515.4	508.0	489.8	484.8	479.9
12.5°	508.0	497.2	476.6	469.1	464.2
15°	498.9	485.7	463.4	455.1	451.0
17.5°	488.1	473.3	448.5	441.9	438.6
20°	476.6	459.2	434.5	428.7	425.4
22.5°	463.4	443.5	420.4	416.3	413.8
25°	448.5	428.7	406.4	403.1	401.4
27.5°	433.6	412.2	391.5	389.9	389.0
30°	416.3	395.6	375.8	376.6	376.6
32.5°	398.9	378.3	362.6	364.2	364.2
35°	379.9	360.1	346.9	350.2	351.0
37.5°	360.1	342.8	332.0	337.0	339.5
40°	340.3	324.6	316.3	323.8	326.3
42.5°	320.5	305.6	302.3	311.4	314.7
45°	298.2	286.6	286.6	298.2	303.1
47.5°	276.7	269.3	271.7	286.6	294.0
50°	256.0	250.3	256.9	275.9	284.1
52.5°	233.7	232.1	242.8	266.0	275.9
55°	214.7	213.9	229.6	256.9	266.8
57.5°	194.1	196.6	218.1	247.8	258.5
60°	174.3	179.2	207.3	238.7	248.6
62.5°	154.5	164.4	197.4	229.6	241.2
65°	136.3	147.8	187.5	220.5	232.1
67.5°	118.1	133.0	177.6	212.3	223.8
70°	99.9	119.8	168.5	203.2	214.7
72.5°	81.8	108.2	159.4	194.1	206.5
75°	66.1	96.6	150.3	185.0	197.4
77.5°	51.2	87.6	141.2	177.6	188.3
80°	37.2	77.6	133.0	168.5	180.1
82.5°	24.0	69.4	123.9	159.4	171.8
85°	14.0	60.3	114.8	151.1	162.7
87.5°	5.8	51.2	106.5	142.1	153.6
90°	0.0	43.8	97.5	133.0	144.5
92.5°	0.0	36.3	89.2	124.7	136.3
95°	0.0	28.1	80.1	115.6	127.2
97.5°	0.0	21.5	71.0	106.5	118.1
100°	0.0	16.5	61.9	95.8	108.2
102.5°	0.0	11.6	52.9	85.9	98.3
105°	0.0	6.6	45.4	76.8	87.6
107.5°	0.0	3.3	38.0	67.7	78.5
110°	0.0	0.8	30.6	58.6	68.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	24.0	50.4	60.3
115°	0.0	0.0	18.2	42.1	51.2
117.5°	0.0	0.0	12.4	34.7	42.9
120°	0.0	0.0	7.4	27.3	34.7
122.5°	0.0	0.0	3.3	20.6	27.3
125°	0.0	0.0	0.8	14.0	20.6
127.5°	0.0	0.0	0.0	8.3	14.0
130°	0.0	0.0	0.0	4.1	8.3
132.5°	0.0	0.0	0.0	0.8	3.3
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)