

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: 138P102

Luminaire Tested: **SNL-132-120V-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 138P102
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SNL-132-120V-EB81
Description: Staggered Narrow Striplight
Light Source: One - FO32/735 - 2800 Lumens
Ballast/Driver: Magnetek B2321120RH Electronic - L.O.B.F. = 87.6

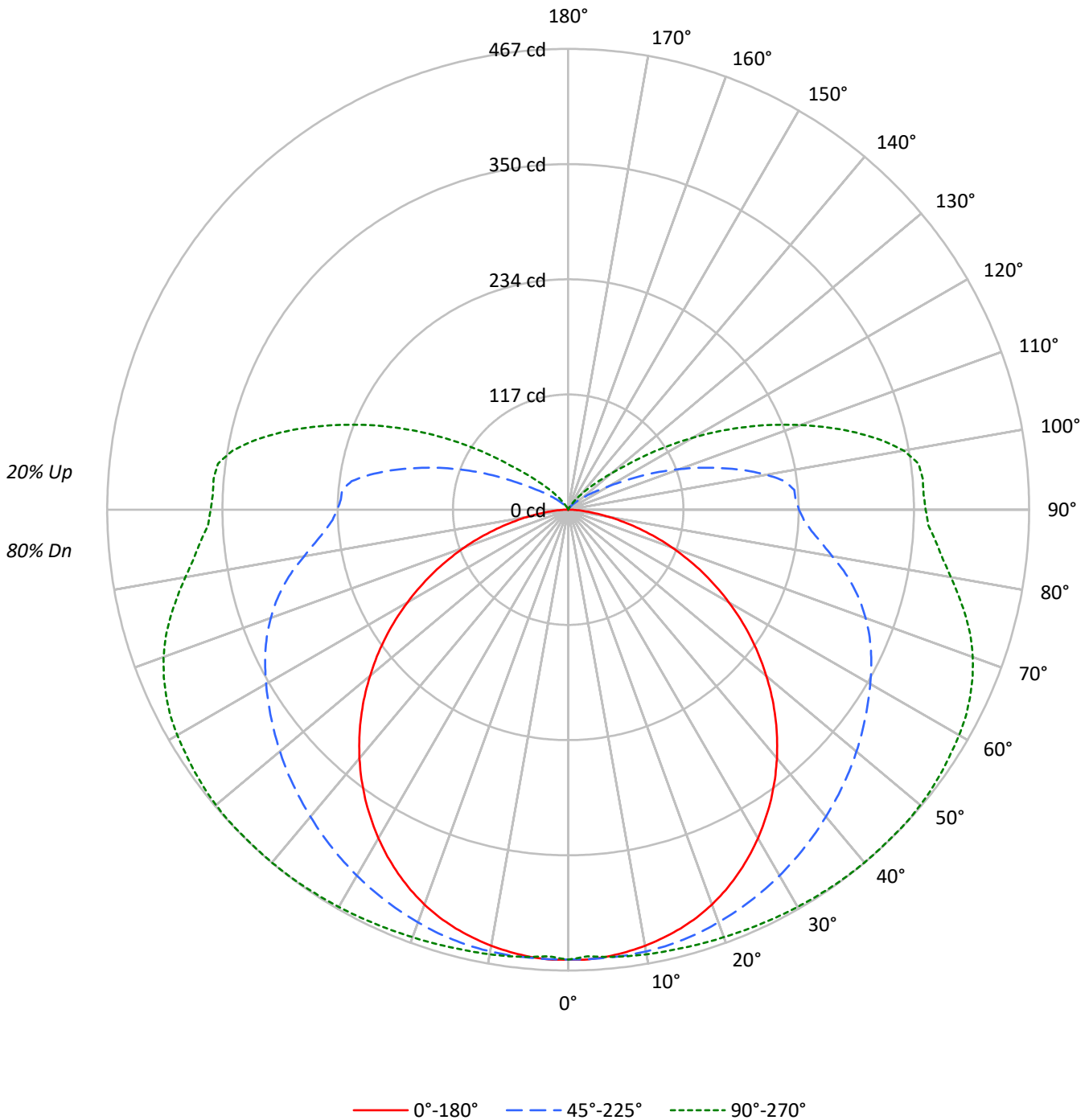
Summary

Lumens per Lamp: 2800 (1 lamp)
Luminaire Lumens: 2637.1 lumens
Efficiency: 94.2%
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.56 / 1.6
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.15')
CIE Type: Semi-Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (A_{in}): 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	108	108	108	108	103	103	103	103	94	94	94	86	86	86	79	79	79	75
1	94	88	83	78	89	84	79	75	76	72	69	69	66	63	63	61	58	55
2	84	75	67	60	80	71	64	58	65	59	54	59	54	50	53	49	46	43
3	76	64	55	48	72	61	53	47	56	49	43	50	45	40	46	41	37	34
4	69	56	47	40	65	54	45	38	49	42	36	44	38	33	40	35	31	28
5	63	50	40	34	59	47	39	32	43	36	30	39	33	28	36	30	26	24
6	58	44	35	29	55	42	34	28	39	31	26	35	29	24	32	27	23	20
7	53	40	31	25	51	38	30	24	35	28	23	32	26	21	29	24	20	18
8	50	36	28	22	47	35	27	21	32	25	20	29	23	19	27	21	18	15
9	46	33	25	19	44	32	24	19	29	23	18	27	21	17	25	19	16	14
10	43	30	23	17	41	29	22	17	27	20	16	25	19	15	23	18	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5357	5357	5357
5°	5347	5160	5082
10°	5320	5005	4907
15°	5294	4866	4771
20°	5255	4743	4679
25°	5191	4639	4627
30°	5110	4556	4610
35°	5013	4493	4623
40°	4897	4450	4666
45°	4759	4435	4735
50°	4590	4444	4838
55°	4399	4480	4957
60°	4158	4550	5107
65°	3868	4653	5276
70°	3494	4771	5446
75°	2997	4882	5600
80°	2349	4963	5772
85°	1494	5173	6085



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	43.4	1.6	1.6	0°	456	456	456	456	456	
10°-20°	127.5	4.8	4.6	5°	455	455	456	456	455	43
20°-30°	201.7	7.6	7.2	15°	439	444	451	458	459	124
30°-40°	260.4	9.9	9.3	25°	407	417	437	457	463	188
40°-50°	300.2	11.4	10.7	35°	358	378	418	454	466	224
50°-60°	319.4	12.1	11.4	45°	297	330	394	448	467	229
60°-70°	318.0	12.1	11.4	55°	226	277	368	437	462	202
70°-80°	292.2	11.1	10.4	65°	150	226	338	420	449	148
80°-90°	248.4	9.4	8.9	75°	75	177	299	386	417	80
90°-100°	222.0	8.4	7.9	85°	16	120	247	341	374	18
100°-110°	162.5	6.2	5.8	90°	1	102	234	329	362	1
110°-120°	89.1	3.4	3.2	95°	0	90	230	326	360	0
120°-130°	36.1	1.4	1.3	105°	0	34	163	266	302	0
130°-140°	11.7	0.4	0.4	115°	0	10	80	166	198	1
140°-150°	3.3	0.1	0.1	125°	1	4	29	72	96	1
150°-160°	0.9	0.0	0.0	135°	1	2	10	27	34	1
160°-170°	0.3	0.0	0.0	145°	1	2	4	8	10	1
170°-180°	0.1	0.0	0.0	155°	1	2	2	2	1	1
0°-30°	372.6	14.1	13.3	165°	2	2	2	0	0	0
0°-40°	633.0	24.0	22.6	175°	2	1	1	0	0	0
0°-60°	1252.6	47.5	44.7	180°	1	1	1	1	1	
0°-90°	2111.1	80.1	75.4							
90°-120°	473.6	18.0	16.9							
90°-150°	524.7	19.9	18.7							
90°-180°	526.0	19.9	18.8							
0°-180°	2637.1	100.0	94.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	455.9	455.9	455.9	455.9	455.9
2.5°	456.3	456.9	455.9	455.3	453.0
5°	454.7	455.2	455.7	456.3	454.9
7.5°	452.1	453.4	455.4	457.1	456.5
10°	448.7	451.4	454.7	457.8	457.5
12.5°	444.4	448.4	453.2	458.0	458.3
15°	439.4	444.2	451.1	458.0	459.2
17.5°	433.3	438.7	448.4	458.0	460.2
20°	425.8	432.3	445.1	457.7	461.0
22.5°	417.1	424.9	441.4	457.4	462.0
25°	407.2	417.0	437.3	456.8	463.0
27.5°	396.4	408.2	432.9	456.2	464.0
30°	384.5	398.8	428.2	455.5	464.8
32.5°	371.7	388.6	423.1	454.6	465.5
35°	358.4	377.8	417.7	453.7	466.1
37.5°	344.0	366.4	412.1	452.4	466.6
40°	329.0	354.6	406.1	451.0	466.9
42.5°	313.2	342.3	400.2	449.4	466.7
45°	296.8	329.8	394.1	447.5	466.6
47.5°	279.7	316.9	387.9	445.5	466.6
50°	262.0	303.7	381.2	443.4	465.7
52.5°	244.2	290.4	374.4	440.6	464.3
55°	225.9	277.1	367.5	437.1	462.3
57.5°	207.2	264.0	360.4	433.0	459.7
60°	188.1	251.2	353.4	429.5	457.3
62.5°	169.0	238.5	346.1	425.3	454.0
65°	150.0	225.9	338.4	419.9	449.2
67.5°	130.9	213.5	330.1	413.5	443.4
70°	111.9	201.6	320.7	405.9	436.2
72.5°	93.2	189.5	310.4	396.9	427.5
75°	75.0	176.8	298.8	386.1	416.8
77.5°	57.8	164.0	285.8	374.0	405.4
80°	41.9	150.0	271.6	361.8	393.7
82.5°	27.6	135.2	258.7	349.9	382.7
85°	15.7	120.5	247.4	341.0	374.0
87.5°	7.3	109.5	239.0	332.2	365.3
90°	1.0	101.6	233.8	328.6	362.1
92.5°	0.0	96.1	230.5	326.4	360.3
95°	0.0	90.2	229.9	326.5	360.5
97.5°	0.1	76.4	221.2	322.6	357.9
100°	0.1	61.6	204.1	308.4	345.1
102.5°	0.2	47.5	183.9	288.2	325.2
105°	0.3	34.5	162.6	265.7	301.9
107.5°	0.3	23.9	141.5	241.2	276.9
110°	0.4	17.1	120.3	216.4	250.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	12.7	99.8	191.5	224.7
115°	0.5	9.7	80.1	166.1	198.3
117.5°	0.6	7.5	61.7	141.1	172.0
120°	0.6	6.0	47.3	116.8	145.8
122.5°	0.7	4.9	37.0	93.2	120.5
125°	0.7	4.1	29.0	72.1	95.7
127.5°	0.8	3.5	22.8	56.4	73.4
130°	0.8	3.0	17.7	44.2	57.6
132.5°	0.9	2.6	13.7	34.5	44.7
135°	1.0	2.3	10.5	26.6	34.5
137.5°	1.0	2.1	8.0	20.3	26.2
140°	1.1	2.1	6.3	15.1	19.5
142.5°	1.2	2.1	5.0	11.0	14.1
145°	1.2	2.2	3.9	7.9	9.8
147.5°	1.3	2.2	3.1	5.6	6.6
150°	1.3	2.2	2.5	4.0	4.2
152.5°	1.4	2.3	1.9	2.6	2.6
155°	1.4	2.3	1.6	1.6	1.4
157.5°	1.5	2.3	1.5	0.8	0.3
160°	1.5	2.3	1.5	0.3	0.0
162.5°	1.6	2.1	1.5	0.2	0.0
165°	1.6	2.0	1.5	0.1	0.0
167.5°	1.6	1.8	1.4	0.1	0.0
170°	1.6	1.7	1.2	0.1	0.0
172.5°	1.7	1.5	0.9	0.0	0.0
175°	1.7	1.3	0.6	0.0	0.0
177.5°	1.7	1.3	0.2	0.0	0.0
180°	0.6	0.6	0.6	0.6	0.6

(END OF REPORT)