

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: 138P101

Luminaire Tested: **SNL-232**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 138P101  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: SNL-232  
Description: Staggered Narrow Striplight  
Light Source: Two - FO32/735 - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B2321120RH Electronic - L.O.B.F. = 88.22

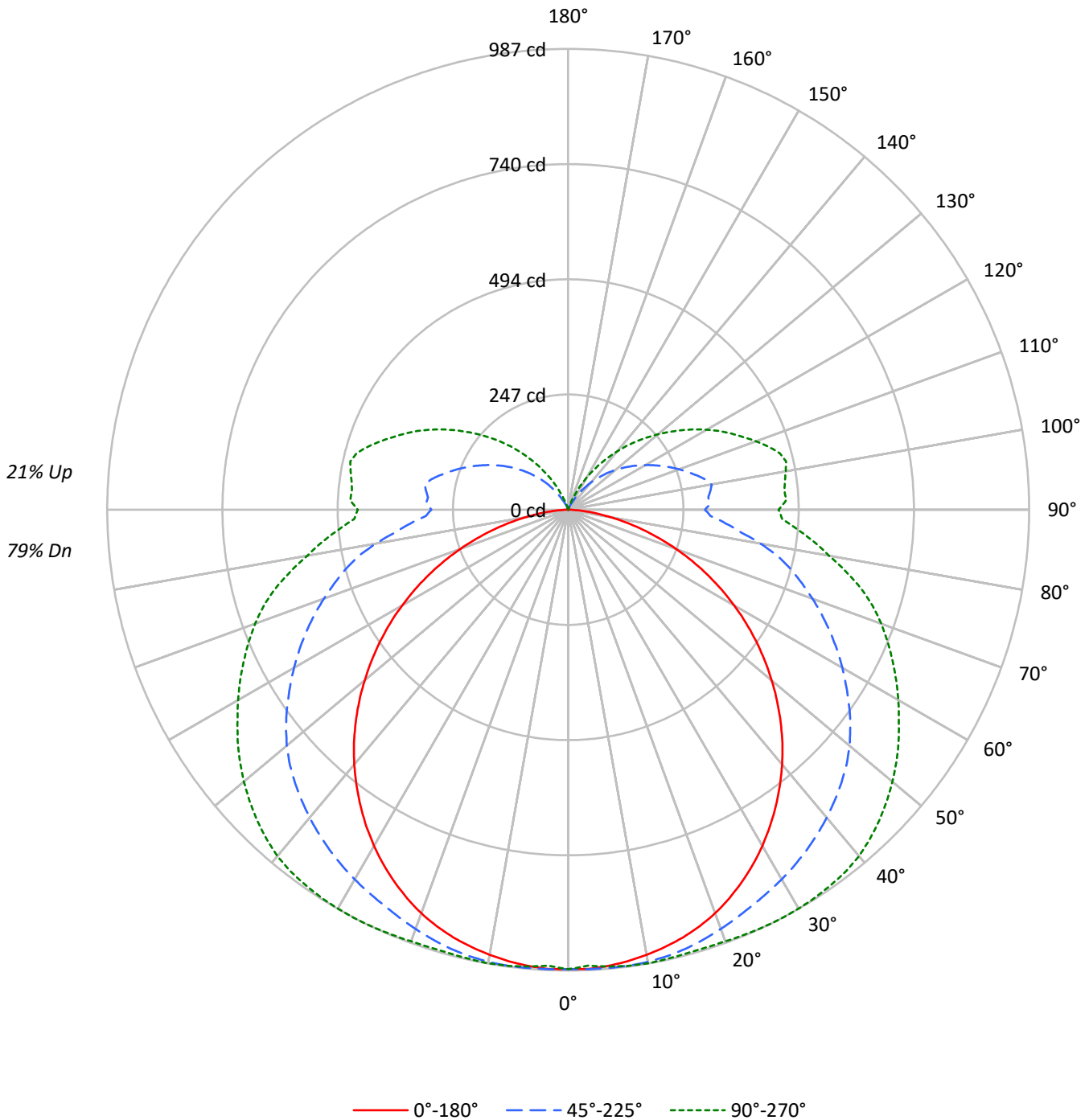
**Summary**

Lumens per Lamp: 2800 (2 lamps)  
Luminaire Lumens: 5060.9 lumens  
Efficiency: 90.4%  
Efficacy: 87.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.52 / 1.56  
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4.33' x H: 0.16')  
CIE Type: Semi-Direct

Input Watts (W): 58  
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	103	103	103	103	99	99	99	99	90	90	90	82	82	82	75	75	75	72
1	91	86	81	77	87	82	78	74	75	71	68	68	65	63	62	60	58	55
2	82	74	66	60	78	70	64	58	64	59	54	58	54	50	53	49	46	43
3	74	64	55	49	70	61	53	47	55	49	44	50	45	41	46	42	38	35
4	67	56	47	41	64	53	45	39	49	42	37	44	39	34	40	36	32	29
5	62	49	41	34	58	47	39	33	43	36	31	39	34	29	36	31	27	25
6	57	44	36	30	54	42	34	29	39	32	27	35	30	25	32	27	24	21
7	52	40	32	26	50	38	30	25	35	28	24	32	26	22	29	24	21	19
8	49	36	28	23	46	35	27	22	32	25	21	29	24	20	27	22	18	16
9	45	33	25	20	43	32	25	20	29	23	19	27	21	18	25	20	16	15
10	42	30	23	18	40	29	22	18	27	21	17	25	20	16	23	18	15	13

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10635	10635	10635
5°	10608	10227	10042
10°	10555	9889	9644
15°	10511	9564	9275
20°	10439	9248	9028
25°	10317	8977	8886
30°	10161	8784	8785
35°	9970	8617	8706
40°	9752	8466	8630
45°	9485	8330	8487
50°	9164	8175	8333
55°	8792	7955	8165
60°	8342	7725	8002
65°	7787	7495	7866
70°	7060	7255	7743
75°	6088	7029	7532
80°	4765	6613	7140
85°	2868	6076	6837



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	93.8	1.9	1.7	0°	984	984	984	984	984	
10°-20°	274.5	5.4	4.9	5°	981	981	985	988	982	93
20°-30°	432.3	8.5	7.7	15°	949	959	973	985	983	268
30°-40°	554.3	11.0	9.9	25°	880	899	935	976	987	405
40°-50°	625.1	12.4	11.2	35°	775	810	890	961	981	485
50°-60°	632.7	12.5	11.3	45°	644	703	827	916	942	496
60°-70°	582.8	11.5	10.4	55°	491	586	734	831	864	439
70°-80°	482.5	9.5	8.6	65°	329	461	619	727	766	325
80°-90°	342.5	6.8	6.1	75°	166	324	494	609	649	176
90°-100°	297.9	5.9	5.3	85°	33	184	339	453	494	40
100°-110°	274.1	5.4	4.9	90°	1	131	293	410	451	2
110°-120°	206.3	4.1	3.7	95°	0	134	301	422	465	0
120°-130°	138.0	2.7	2.5	105°	0	104	284	421	469	0
130°-140°	78.9	1.6	1.4	115°	1	72	222	344	386	1
140°-150°	34.9	0.7	0.6	125°	1	43	162	260	297	1
150°-160°	9.0	0.2	0.2	135°	2	16	104	179	207	2
160°-170°	1.2	0.0	0.0	145°	2	5	49	102	120	2
170°-180°	0.2	0.0	0.0	155°	3	5	10	32	42	1
0°-30°	800.6	15.8	14.3	165°	3	5	4	3	1	1
0°-40°	1354.9	26.8	24.2	175°	3	3	2	1	0	0
0°-60°	2612.7	51.6	46.7	180°	1	1	1	1	1	
0°-90°	4020.4	79.4	71.8							
90°-120°	778.3	15.4	13.9							
90°-150°	1030.1	20.4	18.4							
90°-180°	1040.0	20.5	18.6							
0°-180°	5060.9	100.0	90.4							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	984.0	984.0	984.0	984.0	984.0
2.5°	984.4	984.2	985.1	985.6	977.5
5°	980.9	981.3	985.3	988.2	981.9
7.5°	975.4	977.9	985.1	990.0	985.4
10°	968.0	973.8	983.4	990.6	986.5
12.5°	959.2	967.6	979.5	988.8	985.2
15°	948.7	958.6	973.4	985.4	983.4
17.5°	935.6	946.8	965.2	982.0	982.9
20°	919.8	932.6	955.6	979.3	983.7
22.5°	901.1	916.8	945.2	977.9	985.4
25°	880.0	899.1	934.6	976.1	986.8
27.5°	856.8	879.3	924.6	974.0	987.3
30°	831.5	857.7	914.3	970.8	986.6
32.5°	804.1	834.4	902.7	966.4	984.6
35°	775.2	809.6	890.0	960.6	981.2
37.5°	744.6	783.7	876.2	953.2	976.5
40°	712.6	757.1	860.9	944.2	968.7
42.5°	678.8	730.1	844.7	931.9	956.2
45°	643.5	702.9	827.3	915.8	941.5
47.5°	606.7	674.4	808.4	897.2	924.8
50°	569.0	645.5	786.3	876.9	906.4
52.5°	530.4	615.7	761.5	854.6	886.0
55°	491.2	585.5	734.5	830.9	863.8
57.5°	451.3	555.2	706.1	804.9	839.5
60°	410.6	524.3	678.0	780.1	816.2
62.5°	370.0	492.9	648.8	754.1	791.8
65°	328.6	460.8	618.6	727.1	766.4
67.5°	287.3	426.6	587.7	699.8	740.4
70°	246.1	392.0	556.3	672.0	713.3
72.5°	205.5	357.8	524.7	642.6	683.5
75°	165.9	323.5	493.7	609.1	648.6
77.5°	128.0	289.4	459.5	569.2	608.3
80°	92.6	256.9	418.4	526.5	567.3
82.5°	60.6	225.0	374.0	489.1	531.6
85°	32.9	183.5	339.1	452.8	493.5
87.5°	12.2	148.1	304.9	417.8	458.7
90°	1.3	130.6	293.0	409.6	450.7
92.5°	0.0	134.4	304.6	425.2	467.2
95°	0.0	133.6	301.1	421.9	464.7
97.5°	0.0	134.4	306.9	426.0	467.7
100°	0.0	123.2	312.0	431.5	473.0
102.5°	0.0	113.3	300.4	435.5	477.7
105°	0.2	103.8	284.3	421.4	468.6
107.5°	0.3	95.0	268.1	402.5	449.2
110°	0.5	87.2	252.9	382.4	428.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	79.5	237.2	363.1	406.0
115°	0.7	71.9	221.5	343.7	385.8
117.5°	1.0	64.7	206.3	323.0	364.8
120°	1.1	57.3	191.1	301.8	342.5
122.5°	1.3	50.0	176.2	280.7	319.8
125°	1.4	42.6	161.5	260.0	296.6
127.5°	1.5	35.2	146.9	239.2	273.7
130°	1.7	28.1	132.4	219.1	250.9
132.5°	1.9	21.6	118.1	199.0	229.0
135°	2.0	15.9	104.0	179.0	207.2
137.5°	2.1	11.5	90.0	159.4	185.0
140°	2.2	8.4	76.1	139.6	162.8
142.5°	2.4	6.2	62.5	120.4	141.0
145°	2.5	5.4	49.1	101.5	120.5
147.5°	2.6	5.3	36.6	83.0	99.6
150°	2.7	5.3	25.5	64.9	79.9
152.5°	2.9	5.2	16.4	47.6	60.4
155°	3.0	5.3	10.1	31.7	42.1
157.5°	3.0	5.3	5.9	18.7	25.9
160°	3.1	5.3	4.7	9.6	13.4
162.5°	3.2	5.0	4.3	4.0	5.1
165°	3.2	4.6	4.2	2.7	1.3
167.5°	3.3	4.2	4.2	2.2	0.6
170°	3.3	3.7	3.8	2.1	0.2
172.5°	3.4	3.4	3.0	1.6	0.0
175°	3.3	2.9	2.1	0.6	0.0
177.5°	3.4	2.8	1.3	0.0	0.0
180°	1.4	1.4	1.4	1.4	1.4

(END OF REPORT)