

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: 216P100

Luminaire Tested: **SNSM-232**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 216P100  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: SNSM-232  
Description: Side Mounted Striplite  
Light Source: Two - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.22

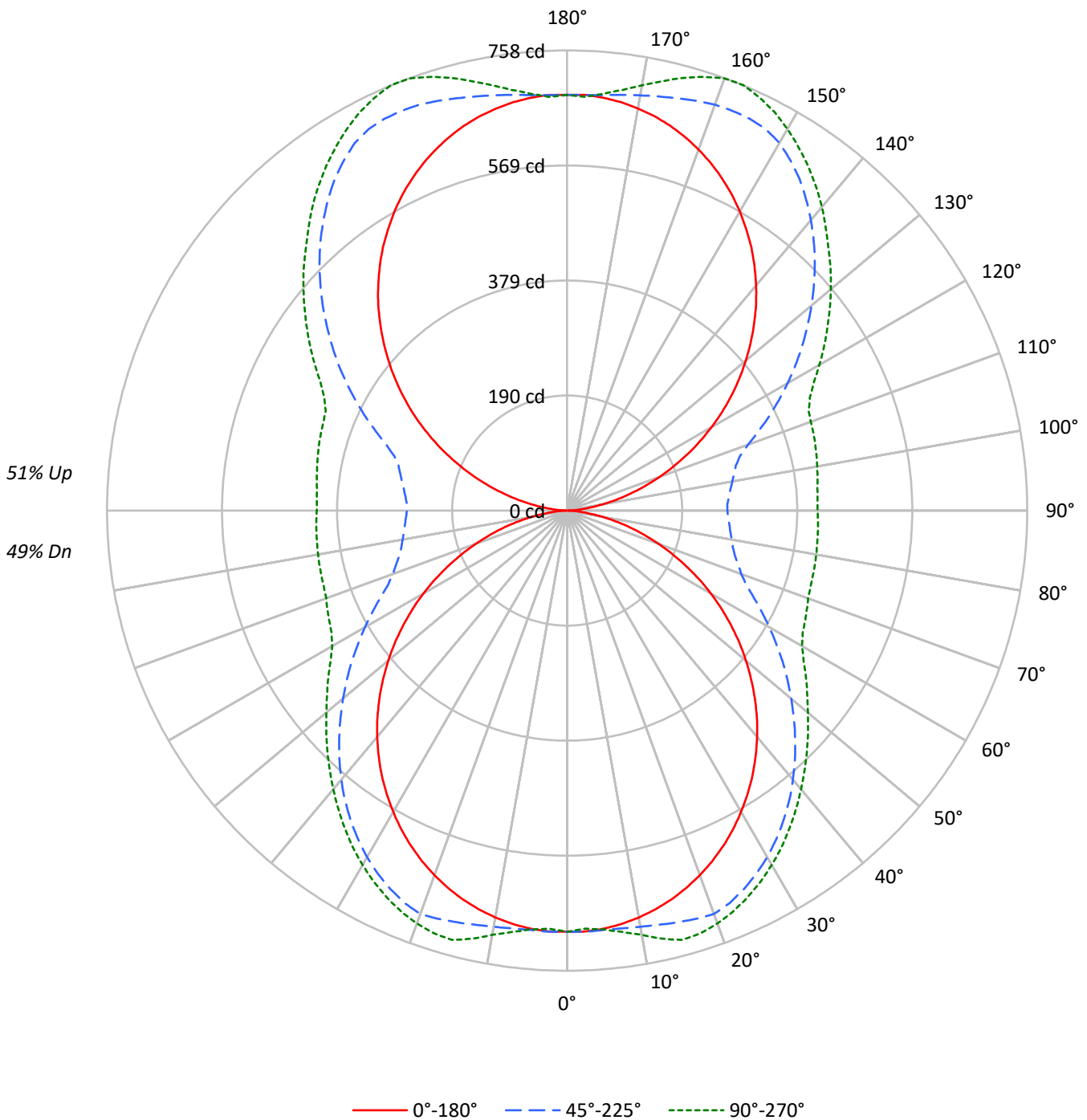
**Summary**

Lumens per Lamp: 2800 (2 lamps)  
Luminaire Lumens: 5383.0 lumens  
Efficiency: 96.1%  
Efficacy: 89.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.41 / 1.47  
Luminous Opening: Rectangular w/ Sides (W: 0.45' x L: 3.92' x H: 0.08')  
CIE Type: General Diffuse

Input Watts (W): 59.9  
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	95	95	95	95	80	80	80	66	66	66	53	53	53	47
1	92	87	82	78	84	80	76	72	67	64	61	55	53	51	44	42	41	35
2	83	75	68	62	76	69	63	58	57	53	49	47	44	41	37	35	33	28
3	75	65	57	51	69	60	53	48	50	45	41	41	37	34	33	30	27	23
4	69	57	49	43	63	53	46	40	44	39	34	36	32	29	29	26	23	20
5	63	51	43	37	57	47	40	34	39	34	29	32	28	25	26	23	20	17
6	58	46	37	31	53	42	35	29	35	30	25	29	25	21	23	20	17	15
7	53	41	33	27	49	38	31	26	32	26	22	27	22	19	21	18	15	13
8	49	37	29	24	45	34	27	23	29	24	20	24	20	17	20	16	14	11
9	46	34	26	21	42	31	25	20	27	21	17	22	18	15	18	15	12	10
10	43	31	24	19	39	29	22	18	25	19	16	21	16	13	17	13	11	9

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

	0°	45°	90°
0°	4254	4254	4254
5°	4249	4216	4197
10°	4223	4227	4281
15°	4188	4291	4430
20°	4139	4383	4426
25°	4082	4360	4380
30°	4009	4305	4313
35°	3928	4226	4233
40°	3830	4128	4153
45°	3714	4021	4090
50°	3579	3916	4047
55°	3422	3832	4063
60°	3235	3766	4150
65°	3002	3748	4489
70°	2713	3907	5020
75°	2348	4386	5867
80°	1848	5318	7176
85°	1110	7073	9359



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	66.2	1.2	1.2	0°	694	694	694	694	694	
10°-20°	197.6	3.7	3.5	5°	691	691	693	694	693	66
20°-30°	309.5	5.7	5.5	15°	663	672	702	728	732	187
30°-40°	380.5	7.1	6.8	25°	609	639	688	702	703	281
40°-50°	401.5	7.5	7.2	35°	532	590	622	637	639	333
50°-60°	379.6	7.1	6.8	45°	437	499	531	552	559	337
60°-70°	334.5	6.2	6.0	55°	330	391	433	467	480	295
70°-80°	294.5	5.5	5.3	65°	216	278	339	403	432	214
80°-90°	269.6	5.0	4.8	75°	107	177	286	383	419	114
90°-100°	269.4	5.0	4.8	85°	20	123	268	376	415	24
100°-110°	300.5	5.6	5.4	90°	1	113	264	373	412	2
110°-120°	353.2	6.6	6.3	95°	20	123	267	375	414	25
120°-130°	410.3	7.6	7.3	105°	108	192	288	387	423	115
130°-140°	430.5	8.0	7.7	115°	218	305	367	418	441	215
140°-150°	401.0	7.5	7.2	125°	330	426	473	509	523	295
150°-160°	320.2	5.9	5.7	135°	436	530	577	602	609	336
160°-170°	198.6	3.7	3.5	145°	529	599	667	688	692	331
170°-180°	65.8	1.2	1.2	155°	604	644	712	747	750	278
0°-30°	573.3	10.7	10.2	165°	656	672	703	732	738	185
0°-40°	953.8	17.7	17.0	175°	683	684	687	692	689	65
0°-60°	1734.8	32.2	31.0	180°	685	685	685	685	685	
0°-90°	2633.4	48.9	47.0							
90°-120°	923.1	17.1	16.5							
90°-150°	2165.0	40.2	38.7							
90°-180°	2750.0	51.1	49.1							
0°-180°	5383.0	100.0	96.1							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	693.5	693.5	693.5	693.5	693.5
2.5°	694.0	693.6	694.3	692.8	689.3
5°	691.4	691.3	693.4	694.1	692.6
7.5°	686.7	687.7	694.1	699.9	700.1
10°	680.6	683.2	696.1	707.4	709.7
12.5°	672.6	678.0	698.8	717.1	722.3
15°	663.2	671.9	702.1	727.8	732.2
17.5°	652.1	665.3	705.2	729.0	730.2
20°	639.0	657.0	707.1	722.3	723.8
22.5°	624.9	648.2	699.8	713.7	714.7
25°	609.1	639.4	688.1	701.8	703.0
27.5°	591.9	629.2	674.7	688.0	689.4
30°	573.0	618.4	659.1	672.4	674.0
32.5°	553.3	606.4	641.4	655.3	657.4
35°	532.4	590.4	622.0	636.6	638.7
37.5°	510.0	569.9	601.3	616.5	619.4
40°	486.8	547.5	578.7	595.5	599.3
42.5°	462.6	523.5	555.4	574.2	579.0
45°	437.2	498.7	531.2	552.4	558.8
47.5°	411.0	472.4	506.6	530.6	538.2
50°	384.5	445.6	481.8	509.1	517.7
52.5°	357.5	418.4	457.4	487.6	498.5
55°	329.7	390.8	433.0	467.0	480.4
57.5°	301.7	362.5	408.3	447.1	462.1
60°	273.4	334.2	384.6	427.9	446.8
62.5°	245.1	305.8	361.4	412.7	437.4
65°	216.2	277.8	339.1	403.4	432.2
67.5°	187.9	250.7	319.1	396.9	427.4
70°	160.1	224.4	305.2	390.1	422.4
72.5°	132.9	199.9	295.4	385.5	420.1
75°	106.9	177.2	285.9	382.9	418.7
77.5°	81.9	157.1	279.6	380.9	417.8
80°	58.6	143.2	275.2	379.3	416.6
82.5°	37.5	131.3	271.3	377.5	415.5
85°	19.6	123.1	268.2	375.9	414.6
87.5°	6.6	117.0	265.8	374.6	413.6
90°	1.1	113.1	263.7	373.4	412.5
92.5°	6.5	115.7	264.3	373.6	412.9
95°	20.1	122.6	267.4	375.0	413.7
97.5°	38.2	131.3	271.4	377.7	416.0
100°	59.5	143.9	276.3	380.8	418.2
102.5°	82.9	165.9	281.7	384.1	420.7
105°	108.0	191.6	287.8	387.2	423.2
107.5°	134.3	218.5	298.6	389.8	425.2
110°	161.3	246.1	316.9	393.1	427.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	189.1	275.1	340.9	402.0	430.5
115°	217.5	305.2	366.6	417.7	441.3
117.5°	246.1	335.7	392.7	438.9	458.1
120°	274.6	366.0	419.3	462.5	479.6
122.5°	302.8	395.9	446.1	486.1	501.5
125°	330.4	425.5	472.7	509.4	523.3
127.5°	357.7	454.4	499.0	532.3	545.1
130°	384.2	481.2	525.4	555.5	567.1
132.5°	410.4	507.1	551.4	578.7	588.6
135°	435.7	530.5	577.0	602.1	609.0
137.5°	460.6	550.6	601.4	624.8	630.6
140°	484.3	568.4	624.7	646.3	653.1
142.5°	507.0	584.4	646.5	668.0	673.0
145°	529.1	599.1	667.2	688.0	692.2
147.5°	549.1	612.1	684.2	706.1	709.7
150°	568.9	624.1	699.3	723.4	725.8
152.5°	587.1	634.5	708.4	737.0	739.8
155°	603.7	643.9	712.0	747.0	750.4
157.5°	619.2	652.4	712.5	752.0	758.5
160°	632.9	659.9	711.6	748.9	757.7
162.5°	645.4	666.4	707.7	741.3	749.0
165°	656.2	671.7	703.1	731.7	738.0
167.5°	665.3	676.2	698.6	720.3	724.5
170°	672.7	679.6	694.5	709.4	711.3
172.5°	678.6	681.5	690.6	700.0	698.9
175°	682.7	683.9	686.8	692.1	689.2
177.5°	685.2	685.2	685.0	686.1	681.9
180°	684.6	684.6	684.6	684.6	684.6

(END OF REPORT)