

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: 197P104

Luminaire Tested: **2P2GX-SS-217S24MI**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 197P104
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-SS-217S24MI
Description: 2 X 2 Silver Steel Recessed Troffer with a 2" deep 8 cell
specular low iridescent parabolic louver
Light Source: Two - FO17T8/35K - 1350 Lumens ea. - 17 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 91.7

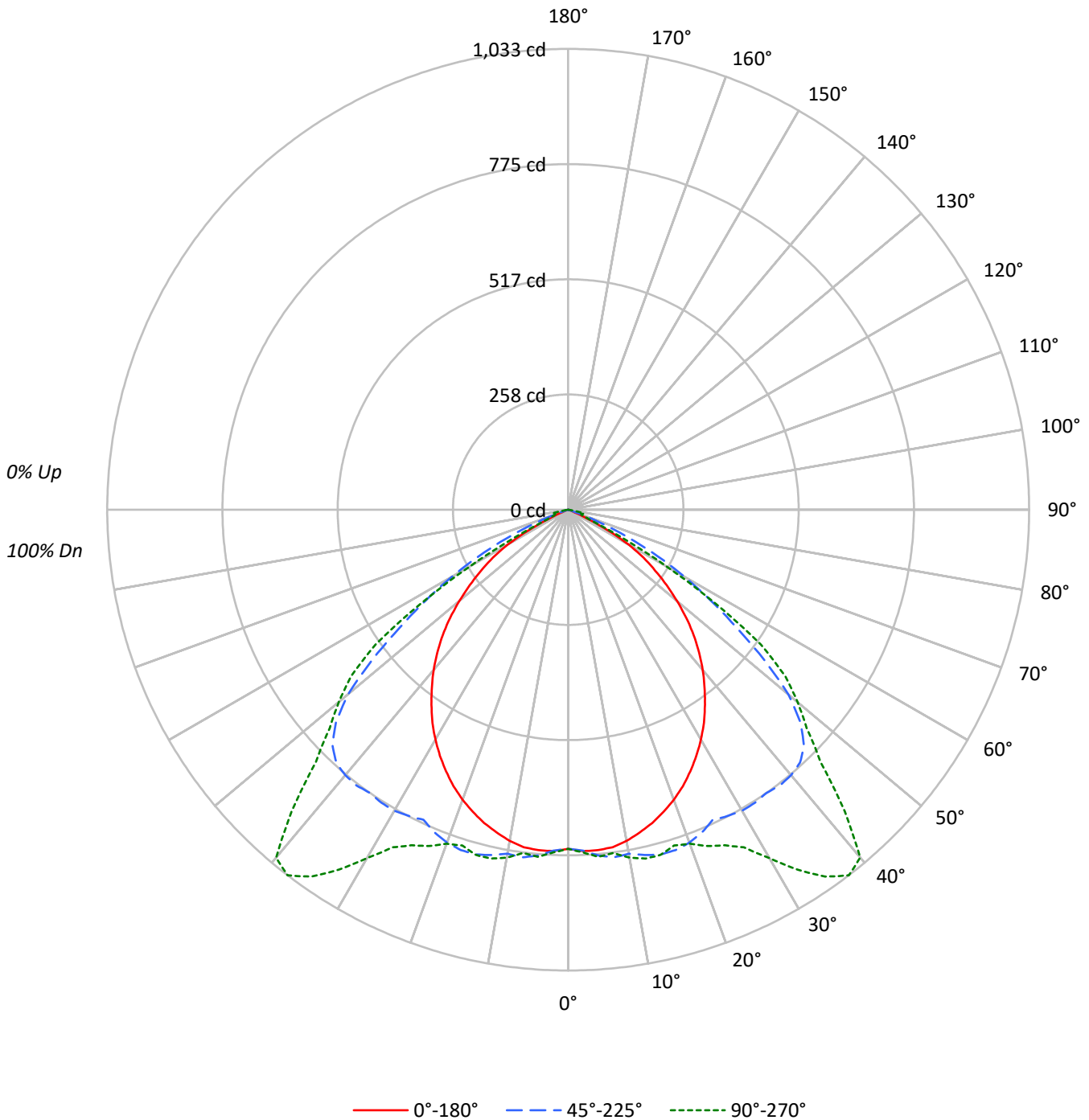
Summary

Lumens per Lamp: 1350 (2 lamps)
Luminaire Lumens: 2165.5 lumens
Efficiency: 80.2%
Efficacy: 63.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.81 / 1.62
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')
CIE Type: Direct

Input Watts (W): 34.1
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									
RC	80									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	50	30	10	0													
RCR																																					
0	95	95	95	95	93	93	93	93	89	89	89	85	85	85	82	82	82	80																			
1	89	86	83	81	87	84	82	80	81	79	77	78	76	75	75	74	73	71																			
2	82	77	72	68	80	75	71	67	72	69	66	70	67	64	68	65	63	61																			
3	76	68	63	58	74	67	62	57	65	60	57	63	59	56	61	57	55	53																			
4	70	61	55	50	68	60	54	49	58	53	49	56	52	48	55	51	48	46																			
5	64	55	48	43	63	54	48	43	52	47	43	51	46	42	49	45	42	40																			
6	59	49	43	38	58	49	42	38	47	42	37	46	41	37	45	40	37	35																			
7	55	45	38	33	54	44	38	33	43	37	33	42	37	33	41	36	33	31																			
8	51	41	34	30	50	40	34	30	39	33	29	38	33	29	37	33	29	28																			
9	48	37	31	27	46	37	31	27	36	30	26	35	30	26	34	30	26	25																			
10	44	34	28	24	43	34	28	24	33	28	24	32	27	24	32	27	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2679	2679	2679
5°	2711	2753	2764
10°	2699	2803	2835
15°	2653	2920	2923
20°	2596	2979	2990
25°	2517	2983	3228
30°	2422	3171	3672
35°	2298	3335	4321
40°	2158	3576	4685
45°	1984	3724	3988
50°	1744	3532	3680
55°	1463	2827	3239
60°	1100	2129	1812
65°	384	1268	459
70°	31	361	320
75°	27	27	490
80°	20	20	20
85°	0	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	74.0	3.4	2.7	0°	760	760	760	760	760	
10°-20°	221.1	10.2	8.2	5°	766	768	778	782	781	73
20°-30°	356.0	16.4	13.2	15°	727	756	800	816	801	205
30°-40°	488.6	22.6	18.1	25°	647	717	767	845	830	298
40°-50°	514.5	23.8	19.1	35°	534	628	775	956	1004	334
50°-60°	378.4	17.5	14.0	45°	398	499	747	833	800	305
60°-70°	118.1	5.5	4.4	55°	238	367	460	522	527	212
70°-80°	14.4	0.7	0.5	65°	46	103	152	102	55	59
80°-90°	0.3	0.0	0.0	75°	2	2	2	29	36	2
90°-100°	0.0	0.0	0.0	85°	0	0	0	0	0	0
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	651.2	30.1	24.1	165°	0	0	0	0	0	0
0°-40°	1139.8	52.6	42.2	175°	0	0	0	0	0	0
0°-60°	2032.6	93.9	75.3	180°	0	0	0	0	0	0
0°-90°	2165.5	100.0	80.2							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	2165.5	100.0	80.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	760	760	760	760	760
2.5°	766	763	765	766	769
5°	766	768	778	782	781
7.5°	763	773	786	779	776
10°	754	774	783	795	792
12.5°	741	768	793	811	801
15°	727	756	800	816	801
17.5°	710	744	800	816	789
20°	692	735	794	808	797
22.5°	671	728	783	830	816
25°	647	717	767	845	830
27.5°	622	700	774	857	853
30°	595	680	779	886	902
32.5°	566	655	779	921	957
35°	534	628	775	956	1004
37.5°	502	597	779	979	1033
40°	469	561	777	981	1018
42.5°	434	525	769	938	917
45°	398	499	747	833	800
47.5°	359	470	706	727	725
50°	318	438	644	654	671
52.5°	278	406	554	594	613
55°	238	367	460	522	527
57.5°	200	316	378	424	391
60°	156	256	302	301	257
62.5°	100	185	226	188	134
65°	46	103	152	102	55
67.5°	16	40	89	60	36
70°	3	8	35	55	31
72.5°	2	3	9	46	31
75°	2	2	2	29	36
77.5°	1	1	1	13	34
80°	1	1	1	2	1
82.5°	0	0	1	1	1
85°	0	0	0	0	0
87.5°	0	0	0	0	0
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)