

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: 150P124

Luminaire Tested: **P5GX-132S19VDT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 150P124  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: P5GX-132S19VDT  
Description: 1 X 4 Recessed Convertible Body Luminaire Troffer with  
a 9 cell semi-specular VDT louver.  
Light Source: One - FO32/735 - 2800 Lumens - 32 Watts  
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 101.30

**Summary**

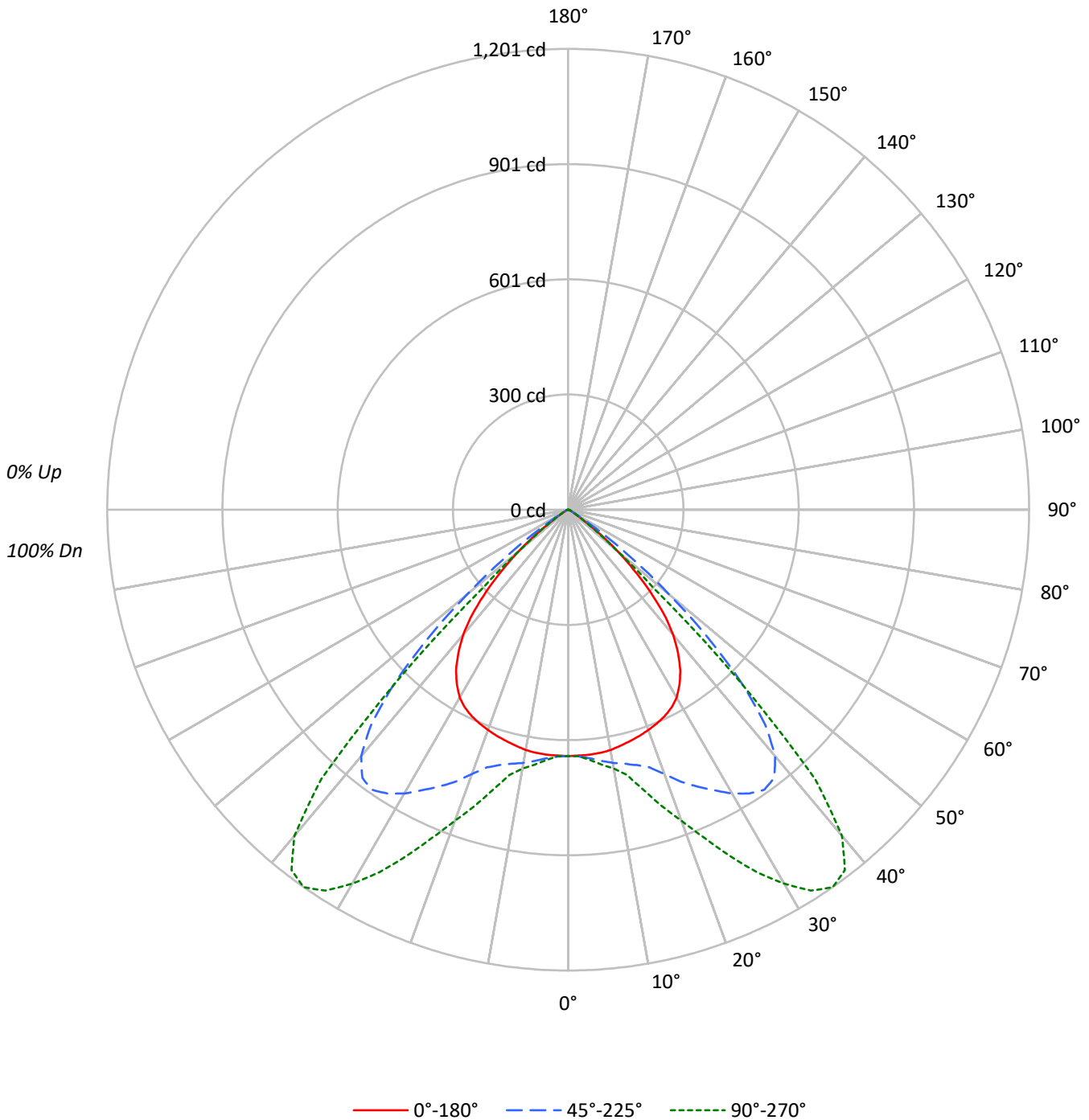
Lumens per Lamp: 2800 (1 lamp)  
Luminaire Lumens: 1683.9 lumens  
Efficiency: 60.1%  
Efficacy: 49.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.89 / 1.52  
Luminous Opening: Rectangular (W 0.74' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 34  
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	50	30	10	0	
RCR																						
0	72	72	72	72	70	70	70	70	67	67	67	64	64	64	61	61	61	60				
1	67	65	64	62	66	64	62	61	62	60	59	59	58	57	57	56	56	55				
2	63	59	56	54	62	58	56	53	56	54	52	54	53	51	53	51	50	49				
3	59	54	50	47	57	53	50	47	51	48	46	50	47	45	48	46	44	43				
4	55	49	45	41	53	48	44	41	47	43	41	45	43	40	44	42	40	39				
5	51	44	40	37	50	44	40	37	43	39	36	42	38	36	41	38	36	34				
6	47	41	36	33	46	40	36	33	39	35	32	38	35	32	37	34	32	31				
7	44	37	32	29	43	37	32	29	36	32	29	35	31	29	34	31	29	28				
8	41	34	29	26	40	34	29	26	33	29	26	32	29	26	31	28	26	25				
9	38	31	27	24	38	31	27	24	30	26	24	30	26	24	29	26	23	22				
10	36	29	24	22	35	28	24	22	28	24	21	27	24	21	27	24	21	20				

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

	0°	45°	90°
0°	2490	2490	2490
5°	2496	2531	2550
10°	2505	2639	2698
15°	2506	2767	3032
20°	2522	3026	3558
25°	2542	3407	4258
30°	2531	3825	5039
35°	2410	4219	5687
40°	2152	4248	5615
45°	1657	3511	3428
50°	1014	2076	978
55°	345	771	325
60°	132	186	163
65°	83	92	110
70°	57	68	68
75°	45	45	45
80°	45	45	45
85°	45	45	45



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	62.5	3.7	2.2	0°	642	642	642	642	642	
10°-20°	197.9	11.8	7.1	5°	641	642	650	656	655	61
20°-30°	369.5	21.9	13.2	15°	624	647	689	735	755	176
30°-40°	537.0	31.9	19.2	25°	594	648	796	942	995	273
40°-50°	415.1	24.7	14.8	35°	509	632	891	1117	1201	315
50°-60°	85.9	5.1	3.1	45°	302	432	640	718	625	229
60°-70°	11.6	0.7	0.4	55°	51	74	114	70	48	60
70°-80°	3.5	0.2	0.1	65°	9	11	10	12	12	10
80°-90°	0.8	0.0	0.0	75°	3	3	3	3	3	3
90°-100°	0.0	0.0	0.0	85°	1	1	1	1	1	1
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°	629.9	37.4	22.5	165°	0	0	0	0	0	0
0°-40°	1166.9	69.3	41.7	175°	0	0	0	0	0	0
0°-60°	1667.9	99.1	59.6	180°	0	0	0	0	0	0
0°-90°	1683.9	100.0	60.1							
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°	1683.9	100.0	60.1							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	642	642	642	642	642
2.5°	641	641	644	646	643
5°	641	642	650	656	655
7.5°	639	645	660	670	670
10°	636	647	670	684	685
12.5°	630	647	678	701	708
15°	624	647	689	735	755
17.5°	618	646	704	786	809
20°	611	647	733	834	862
22.5°	603	647	767	884	925
25°	594	648	796	942	995
27.5°	582	648	824	1003	1065
30°	565	647	854	1059	1125
32.5°	540	643	877	1097	1177
35°	509	632	891	1117	1201
37.5°	470	609	881	1098	1184
40°	425	572	839	1027	1109
42.5°	370	515	760	900	952
45°	302	432	640	718	625
47.5°	231	329	493	445	298
50°	168	228	344	229	162
52.5°	105	142	215	127	93
55°	51	74	114	70	48
57.5°	25	36	51	35	28
60°	17	21	24	22	21
62.5°	12	15	14	16	16
65°	9	11	10	12	12
67.5°	7	8	8	8	9
70°	5	6	6	6	6
72.5°	4	4	4	5	5
75°	3	3	3	3	3
77.5°	2	2	2	2	2
80°	2	2	2	2	2
82.5°	1	1	1	1	1
85°	1	1	1	1	1
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)