

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: 150P111

Luminaire Tested: **P5GX-132S19M/I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 150P111
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: P5GX-132S19M/I
Description: 1 X 4 Recessed Convertible Body Troffer with
a 9 cell specular low iridescent precision
cell II parabolic louver.
Light Source: F32T8/31K - 2900 Lumens - 32 Watts
Ballast/Driver: -

Summary

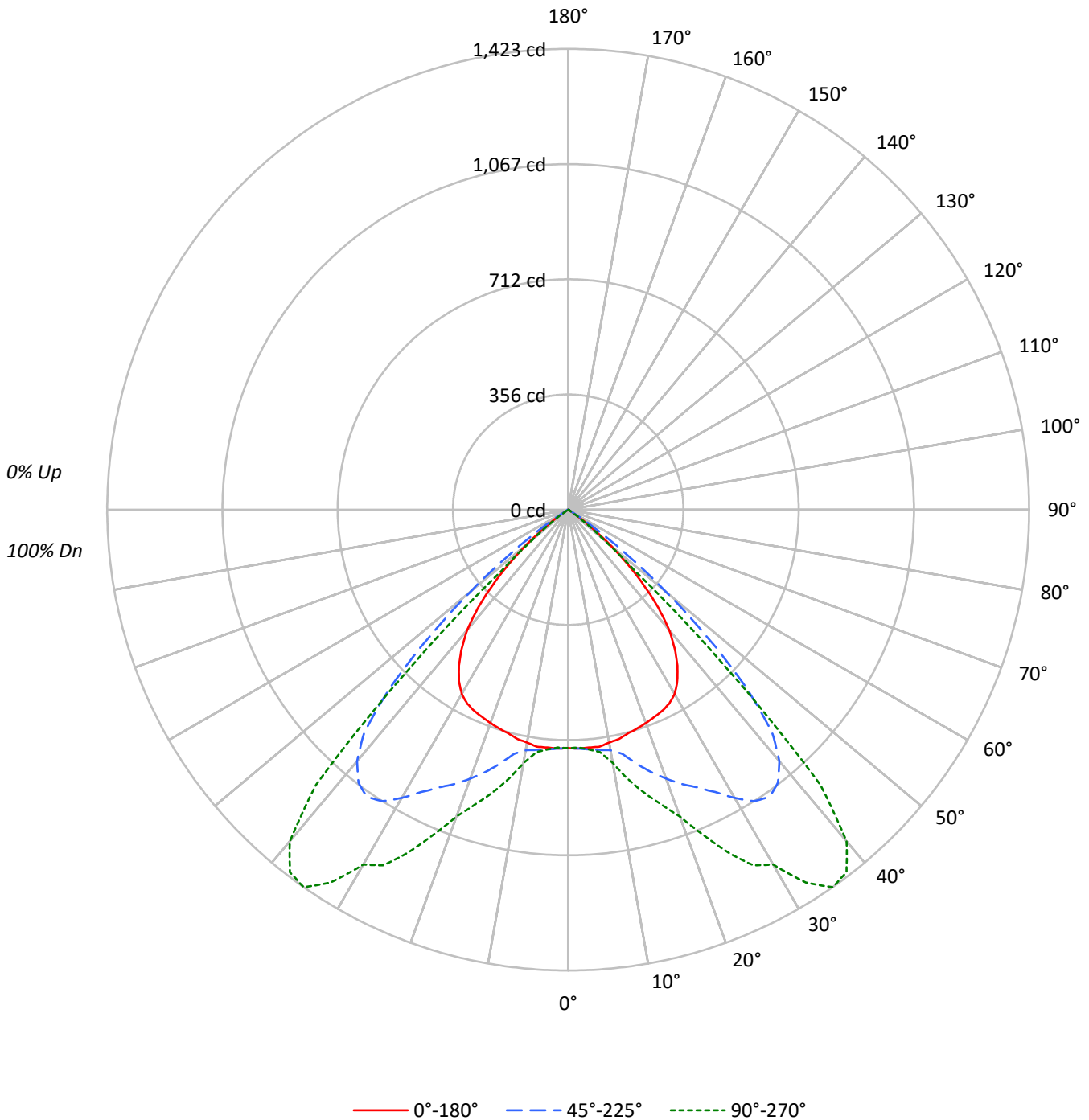
Lumens per Lamp: 2900 (1 lamp)
Luminaire Lumens: 1944.2 lumens
Efficiency: 67.0%
Efficacy: 51.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.9 / 1.53
Luminous Opening: Rectangular (W 0.73' x L: 3.77' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	80	80	80	80	78	78	78	78	74	74	74	71	71	71	68	68	68	67						67									
1	75	73	71	69	74	72	70	68	69	67	66	66	65	64	64	63	62	61						61									
2	70	66	63	60	69	65	62	60	63	61	58	61	59	57	59	57	56	55						55									
3	66	60	56	53	64	59	56	53	58	54	52	56	53	51	54	52	50	49						49									
4	61	55	50	47	60	54	50	46	53	49	46	51	48	45	50	47	45	44						44									
5	57	50	45	41	56	49	45	41	48	44	41	47	43	40	46	43	40	39						39									
6	53	46	41	37	52	45	40	37	44	40	37	43	39	36	42	39	36	35						35									
7	49	42	37	33	48	41	36	33	40	36	33	39	35	33	38	35	32	31						31									
8	46	38	33	30	45	38	33	30	37	33	30	36	32	29	35	32	29	28						28									
9	43	35	30	27	42	35	30	27	34	30	27	33	29	27	33	29	27	25						25									
10	40	32	28	24	40	32	27	24	31	27	24	31	27	24	30	27	24	23						23									

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2865	2865	2865
5°	2880	2903	2903
10°	2886	2980	3138
15°	2881	3268	3643
20°	2904	3662	4176
25°	2946	4063	5017
30°	2953	4621	5686
35°	2794	5147	6762
40°	2465	5153	6794
45°	1822	4277	3815
50°	1005	2386	824
55°	271	753	129
60°	39	78	31
65°	28	28	28
70°	23	23	11
75°	15	15	15
80°	22	22	0
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°	71.3	3.7	2.5	0°	736	736	736	736	736	
10°-20°	231.4	11.9	8.0	5°	737	739	743	746	743	70
20°-30°	435.8	22.4	15.0	15°	715	735	811	886	904	202
30°-40°	640.3	32.9	22.1	25°	686	770	946	1111	1168	316
40°-50°	484.7	24.9	16.7	35°	588	770	1083	1323	1423	363
50°-60°	76.1	3.9	2.6	45°	331	505	777	852	693	251
60°-70°	3.2	0.2	0.1	55°	40	61	111	49	19	51
70°-80°	1.2	0.1	0.0	65°	3	3	3	3	3	3
80°-90°	0.1	0.0	0.0	75°	1	1	1	1	1	1
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°	738.5	38.0	25.5	165°	0	0	0	0	0	0
0°-40°	1378.8	70.9	47.5	175°	0	0	0	0	0	0
0°-60°	1939.6	99.8	66.9	180°	0	0	0	0	0	0
0°-90°	1944.2	100.0	67.0							
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°	1944.2	100.0	67.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	736	736	736	736	736
2.5°	738	738	738	740	735
5°	737	739	743	746	743
7.5°	738	741	748	755	755
10°	730	740	754	782	794
12.5°	725	736	772	836	852
15°	715	735	811	886	904
17.5°	708	736	849	934	954
20°	701	741	884	978	1008
22.5°	693	753	917	1034	1086
25°	686	770	946	1111	1168
27.5°	675	785	983	1187	1238
30°	657	790	1028	1237	1265
32.5°	627	787	1067	1254	1365
35°	588	770	1083	1323	1423
37.5°	540	743	1063	1314	1411
40°	485	703	1014	1227	1337
42.5°	413	628	931	1078	1152
45°	331	505	777	852	693
47.5°	247	362	584	485	279
50°	166	233	394	214	136
52.5°	95	132	231	110	71
55°	40	61	111	49	19
57.5°	11	21	38	11	6
60°	5	7	10	5	4
62.5°	4	4	4	3	3
65°	3	3	3	3	3
67.5°	3	3	2	2	2
70°	2	2	2	1	1
72.5°	2	2	1	1	1
75°	1	1	1	1	1
77.5°	1	1	1	1	1
80°	1	1	1	0	0
82.5°	1	0	0	0	0
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)