

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: 150P118

Luminaire Tested: **P5GAX-232S19M/I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 150P118
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: P5GAX-232S19M/I
Description: 1 X 4 Recessed Convertible Body Troffer with a
9 cell specular low iridescent precision cell
II parabolic louver.
Light Source: Two-FO32T8/35K - 2900 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B232I120RH Electronic

Summary

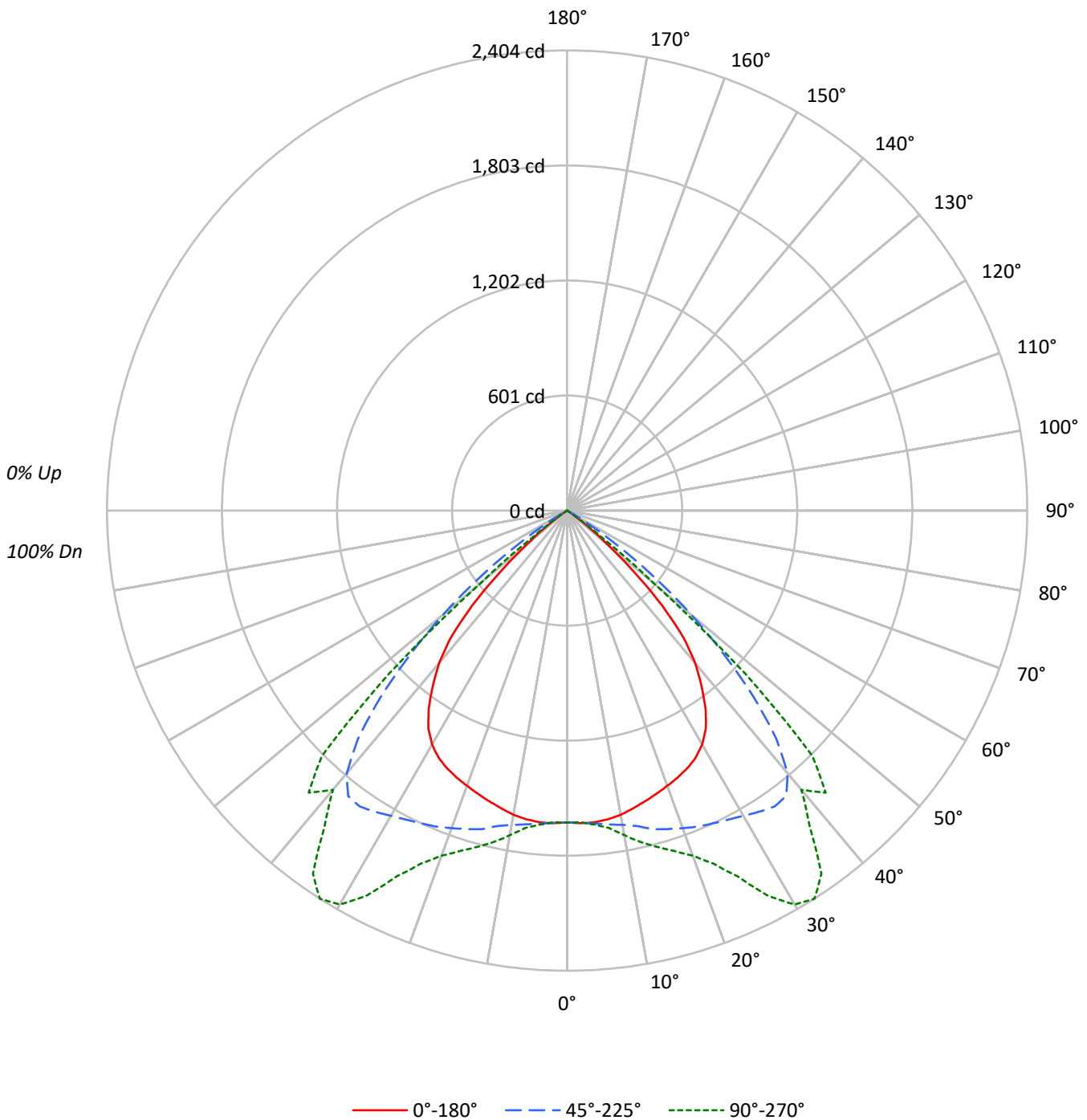
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 3787.1 lumens
Efficiency: 65.3%
Efficacy: 61.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.8 / 1.49
Luminous Opening: Rectangular (W 0.73' x L: 3.77' x H: 0')
CIE Type: Direct

Input Watts (W): 62
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	78	78	78	78	76	76	76	76	73	73	73	69	69	69	67	67	67	65				
1	73	71	69	67	72	70	68	66	67	66	64	65	63	62	62	61	61	59				
2	69	65	61	59	67	64	61	58	61	59	57	59	57	56	57	56	54	53				
3	64	59	55	52	63	58	54	51	56	53	50	54	52	49	53	51	49	47				
4	60	53	49	45	58	53	48	45	51	47	45	50	47	44	48	46	44	42				
5	55	49	44	40	54	48	43	40	47	43	40	45	42	39	44	41	39	38				
6	52	44	40	36	51	44	39	36	43	39	36	42	38	35	41	38	35	34				
7	48	41	36	32	47	40	35	32	39	35	32	38	35	32	38	34	32	30				
8	45	37	32	29	44	37	32	29	36	32	29	35	32	29	35	31	29	28				
9	42	34	30	26	41	34	29	26	33	29	26	33	29	26	32	29	26	25				
10	39	32	27	24	39	31	27	24	31	27	24	30	26	24	30	26	24	23				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6341	6341	6341
5°	6385	6416	6436
10°	6380	6589	6807
15°	6335	6944	7331
20°	6338	7312	7945
25°	6378	7744	9058
30°	6342	8275	10680
35°	5988	8972	11006
40°	5285	9101	9675
45°	3859	7581	9975
50°	1684	5117	3603
55°	312	2348	244
60°	70	304	62
65°	55	46	37
70°	46	34	23
75°	30	30	15
80°	22	0	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°	157.5	4.2	2.7	0°	1629	1629	1629	1629	1629	
10°-20°	485.1	12.8	8.4	5°	1634	1634	1642	1650	1647	155
20°-30°	839.3	22.2	14.5	15°	1572	1610	1723	1805	1819	444
30°-40°	1138.4	30.1	19.6	25°	1485	1607	1803	2010	2109	683
40°-50°	953.6	25.2	16.4	35°	1260	1490	1888	2260	2316	779
50°-60°	204.6	5.4	3.5	45°	701	989	1377	1646	1812	521
60°-70°	6.6	0.2	0.1	55°	46	134	346	149	36	72
70°-80°	1.9	0.0	0.0	65°	6	6	5	5	4	6
80°-90°	0.2	0.0	0.0	75°	2	2	2	1	1	3
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°	1481.9	39.1	25.5	165°	0	0	0	0	0	0
0°-40°	2620.3	69.2	45.2	175°	0	0	0	0	0	0
0°-60°	3778.5	99.8	65.1	180°	0	0	0	0	0	0
0°-90°	3787.1	100.0	65.3							
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°	3787.1	100.0	65.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1629	1629	1629	1629	1629
2.5°	1635	1632	1632	1636	1630
5°	1634	1634	1642	1650	1647
7.5°	1627	1634	1653	1671	1672
10°	1614	1630	1667	1709	1722
12.5°	1593	1620	1688	1765	1774
15°	1572	1610	1723	1805	1819
17.5°	1551	1603	1745	1846	1865
20°	1530	1602	1765	1887	1918
22.5°	1509	1604	1787	1941	1996
25°	1485	1607	1803	2010	2109
27.5°	1455	1600	1820	2105	2267
30°	1411	1579	1841	2224	2376
32.5°	1349	1545	1866	2276	2404
35°	1260	1490	1888	2260	2316
37.5°	1153	1416	1879	2150	2083
40°	1040	1323	1791	1921	1904
42.5°	899	1188	1618	1741	1999
45°	701	989	1377	1646	1812
47.5°	476	746	1110	1339	1262
50°	278	504	845	872	595
52.5°	129	292	587	443	218
55°	46	134	346	149	36
57.5°	14	41	146	21	10
60°	9	11	39	9	8
62.5°	7	7	9	6	6
65°	6	6	5	5	4
67.5°	5	5	4	4	3
70°	4	4	3	3	2
72.5°	3	3	2	2	1
75°	2	2	2	1	1
77.5°	2	2	1	1	1
80°	1	1	0	0	0
82.5°	1	1	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)