

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: 150P115

Luminaire Tested: **P5GX-232S19M/I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 150P115
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: P5GX-232S19M/I
Description: 1 X 4 Recessed Convertible Body Troffer with a
9 cell specular low iridescent precision cell II
parabolic louver. Lamp centers spaced 1.75" apart.
Light Source: Two-F32T8/35K - 2900 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B232I120RH Electronic

Summary

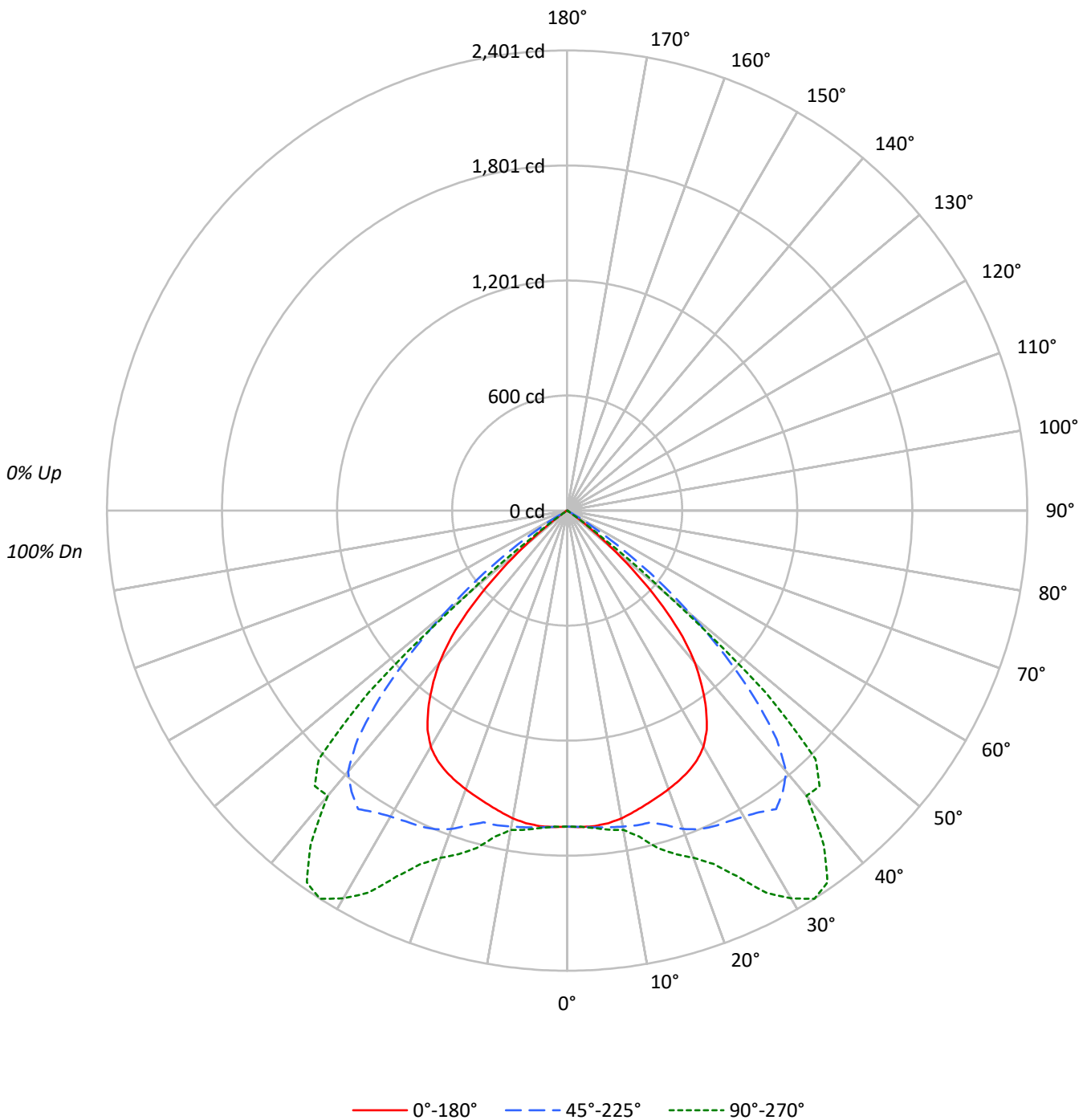
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 3810.9 lumens
Efficiency: 65.7%
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.76 / 1.49
Luminous Opening: Rectangular (W 0.73' x L: 3.77' x H: 0')
CIE Type: Direct

Input Watts (W): 63.5
Input Voltage (V): NR
Input Current (A_{in}): 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	78	78	78	78	76	76	76	76	73	73	73		70	70	70		67	67	67	66
1	74	72	70	68	72	70	68	67	67	66	65		65	64	63		63	62	61	60
2	69	65	62	59	67	64	61	58	62	59	57		60	58	56		58	56	55	53
3	64	59	55	52	63	58	54	51	56	53	51		55	52	50		53	51	49	48
4	60	54	49	46	59	53	49	45	51	48	45		50	47	44		49	46	44	43
5	56	49	44	41	55	48	44	40	47	43	40		46	42	40		45	42	39	38
6	52	45	40	36	51	44	39	36	43	39	36		42	38	35		41	38	35	34
7	48	41	36	32	47	40	36	32	39	35	32		38	35	32		38	34	32	31
8	45	37	33	29	44	37	32	29	36	32	29		35	32	29		35	31	29	28
9	42	34	30	26	41	34	30	26	33	29	26		33	29	26		32	29	26	25
10	40	32	27	24	39	32	27	24	31	27	24		30	27	24		30	26	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6419	6419	6419
5°	6455	6483	6498
10°	6447	6617	6688
15°	6400	6787	7343
20°	6408	7324	7987
25°	6443	7804	9050
30°	6396	8284	10500
35°	6007	9034	11253
40°	5270	9035	9873
45°	3892	7619	10091
50°	1787	5099	4057
55°	339	2389	251
60°	62	311	54
65°	46	37	37
70°	34	23	11
75°	15	15	0
80°	0	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°	158.7	4.2	2.7	0°	1649	1649	1649	1649	1649	
10°-20°	484.4	12.7	8.4	5°	1652	1653	1659	1666	1663	157
20°-30°	839.5	22.0	14.5	15°	1588	1621	1684	1794	1822	449
30°-40°	1143.8	30.0	19.7	25°	1500	1590	1817	2003	2107	690
40°-50°	964.0	25.3	16.6	35°	1264	1499	1901	2258	2368	781
50°-60°	213.7	5.6	3.7	45°	707	983	1384	1632	1833	527
60°-70°	5.9	0.2	0.1	55°	50	140	352	161	37	77
70°-80°	0.9	0.0	0.0	65°	5	5	4	4	4	5
80°-90°	0.0	0.0	0.0	75°	1	1	1	0	0	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°	1482.5	38.9	25.6	165°	0	0	0	0	0	0
0°-40°	2626.4	68.9	45.3	175°	0	0	0	0	0	0
0°-60°	3804.2	99.8	65.6	180°	0	0	0	0	0	0
0°-90°	3810.9	100.0	65.7							
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°	3810.9	100.0	65.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1649	1649	1649	1649	1649
2.5°	1653	1650	1652	1655	1651
5°	1652	1653	1659	1666	1663
7.5°	1645	1652	1667	1679	1680
10°	1631	1645	1674	1695	1692
12.5°	1610	1634	1682	1717	1742
15°	1588	1621	1684	1794	1822
17.5°	1568	1611	1721	1856	1879
20°	1547	1605	1768	1900	1928
22.5°	1525	1598	1800	1944	1995
25°	1500	1590	1817	2003	2107
27.5°	1468	1583	1828	2129	2248
30°	1423	1573	1843	2183	2336
32.5°	1356	1550	1866	2252	2401
35°	1264	1499	1901	2258	2368
37.5°	1156	1425	1849	2190	2199
40°	1037	1329	1778	1999	1943
42.5°	892	1187	1619	1737	1949
45°	707	983	1384	1632	1833
47.5°	496	749	1115	1377	1406
50°	295	513	842	954	670
52.5°	141	302	590	479	233
55°	50	140	352	161	37
57.5°	13	43	155	22	10
60°	8	11	40	9	7
62.5°	6	7	9	6	5
65°	5	5	4	4	4
67.5°	3	4	3	3	2
70°	3	3	2	2	1
72.5°	2	2	1	1	1
75°	1	1	1	0	0
77.5°	1	1	0	0	0
80°	0	0	0	0	0
82.5°	0	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)