

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: 150P125

Luminaire Tested: **P5GX-232S19VDT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 150P125
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: P5GX-232S19VDT
Description: 1 X 4 Recessed Convertible Body Luminaire Troffer with
a 9 cell semi-specular VDT Louver.
Light Source: Two - FO32/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 87.16

Summary

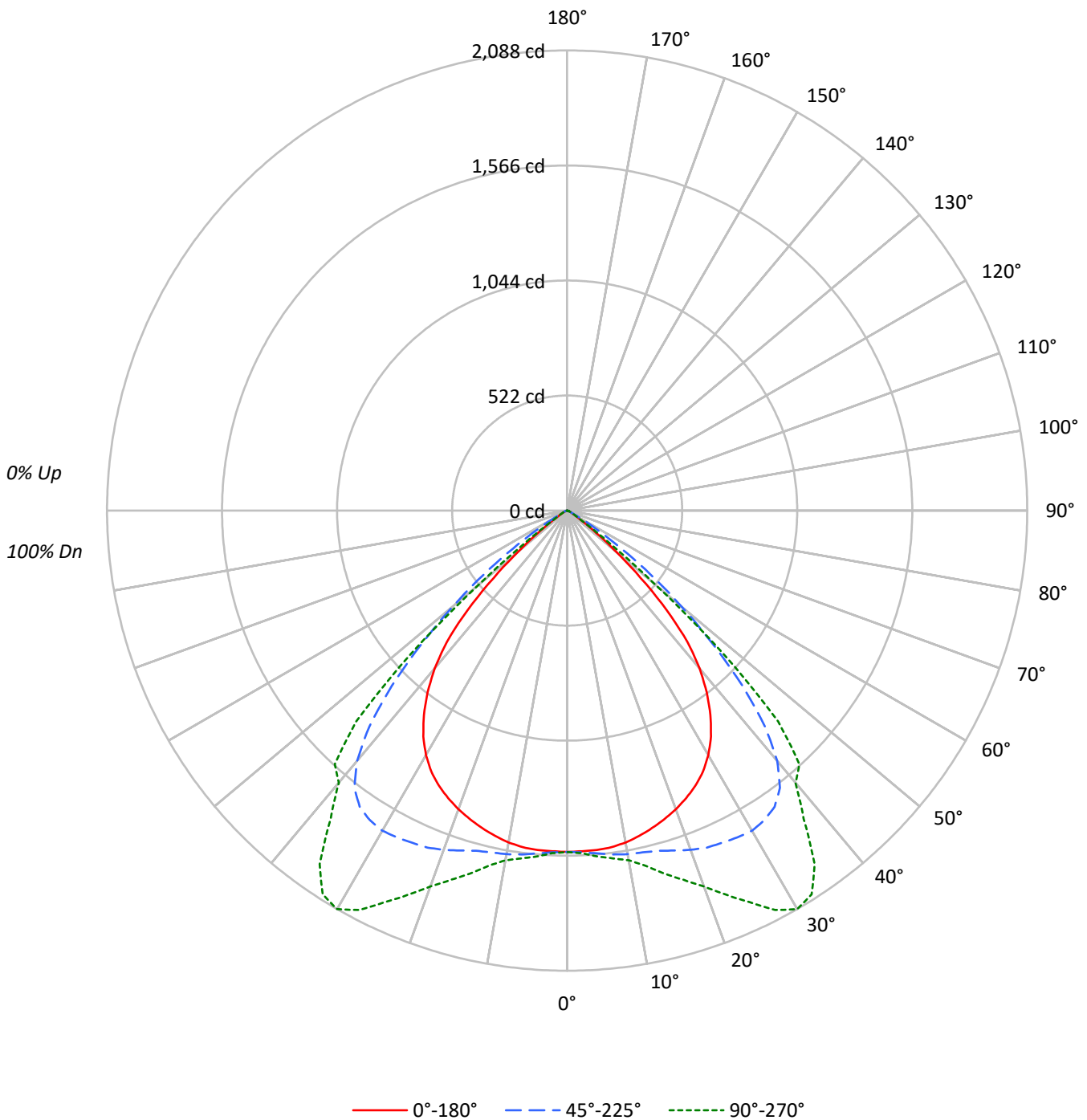
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3374.3 lumens
Efficiency: 60.3%
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.63 / 1.43
Luminous Opening: Rectangular (W 0.74' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 58
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	0
RCR																		
0	72	72	72	72	70	70	70	70	67	67	67	64	64	64	61	61	61	60
1	68	66	64	62	66	64	63	61	62	61	59	60	59	58	57	57	56	55
2	63	60	57	54	62	59	56	54	57	54	52	55	53	51	53	51	50	49
3	59	54	51	48	58	53	50	47	52	49	46	50	48	46	49	47	45	44
4	55	49	45	42	54	49	45	42	47	44	41	46	43	41	45	42	40	39
5	51	45	41	37	50	44	40	37	43	40	37	42	39	36	41	38	36	35
6	48	41	37	33	47	41	36	33	40	36	33	39	35	33	38	35	33	31
7	45	38	33	30	44	37	33	30	36	33	30	36	32	30	35	32	29	28
8	42	35	30	27	41	34	30	27	33	30	27	33	29	27	32	29	27	26
9	39	32	28	25	38	32	27	25	31	27	24	30	27	24	30	27	24	23
10	37	30	25	22	36	29	25	22	29	25	22	28	25	22	28	24	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6012	6012	6012
5°	6023	6081	6136
10°	6026	6238	6349
15°	5991	6421	6851
20°	5956	6765	7496
25°	5897	7121	8397
30°	5741	7515	9357
35°	5368	7775	9277
40°	4737	7513	8167
45°	3518	6175	7431
50°	1733	4088	3134
55°	568	2030	636
60°	241	512	287
65°	156	174	184
70°	113	113	125
75°	90	90	90
80°	67	67	67
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°	149.6	4.4	2.7	0°	1549	1549	1549	1549	1549	
10°-20°	455.4	13.5	8.1	5°	1546	1549	1561	1575	1575	147
20°-30°	771.6	22.9	13.8	15°	1491	1531	1598	1682	1705	421
30°-40°	983.2	29.1	17.6	25°	1377	1460	1663	1879	1961	633
40°-50°	782.3	23.2	14.0	35°	1133	1307	1641	1908	1958	702
50°-60°	202.2	6.0	3.6	45°	641	857	1125	1274	1354	479
60°-70°	22.2	0.7	0.4	55°	84	166	300	181	94	100
70°-80°	6.6	0.2	0.1	65°	17	20	19	20	20	18
80°-90°	1.3	0.0	0.0	75°	6	6	6	6	6	6
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°	1376.6	40.8	24.6	165°	0	0	0	0	0	0
0°-40°	2359.7	69.9	42.1	175°	0	0	0	0	0	0
0°-60°	3344.3	99.1	59.7	180°	0	0	0	0	0	0
0°-90°	3374.3	100.0	60.3							
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°	3374.3	100.0	60.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1549	1549	1549	1549	1549
2.5°	1547	1548	1552	1558	1556
5°	1546	1549	1561	1575	1575
7.5°	1541	1551	1574	1590	1592
10°	1529	1550	1583	1606	1611
12.5°	1512	1544	1588	1635	1651
15°	1491	1531	1598	1682	1705
17.5°	1468	1515	1617	1730	1757
20°	1442	1499	1638	1773	1815
22.5°	1412	1481	1655	1826	1887
25°	1377	1460	1663	1879	1961
27.5°	1335	1436	1672	1929	2043
30°	1281	1406	1677	1973	2088
32.5°	1215	1364	1666	1971	2065
35°	1133	1307	1641	1908	1958
37.5°	1040	1231	1586	1776	1763
40°	935	1136	1483	1574	1612
42.5°	809	1015	1328	1405	1560
45°	641	857	1125	1274	1354
47.5°	452	663	897	1028	961
50°	287	467	677	704	519
52.5°	166	300	478	394	234
55°	84	166	300	181	94
57.5°	46	79	158	73	52
60°	31	43	66	42	37
62.5°	23	29	29	29	27
65°	17	20	19	20	20
67.5°	13	15	14	15	15
70°	10	11	10	11	11
72.5°	8	8	8	8	8
75°	6	6	6	6	6
77.5°	4	4	4	5	4
80°	3	3	3	3	3
82.5°	2	2	2	2	2
85°	1	1	1	1	1
87.5°	1	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)