Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: 189P102

Luminaire Tested: **PGX-132S28I-PAF**

Issue Date: 3/3/2020

Report Generated By E9911574 / USPTCWHP6081592

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Test Information

Test Method:	LM-41-14
Report Number:	189P102
Test Lab:	
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	PGX-132S28I-PAF
Description:	1 X 4 Recessed Convertible Body Troffer with a 4" deep 16 cell semi-specular low iridescent parabolic louver.
Light Source:	One FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver:	Triad B232I120RH Electronic - L.O.B.F. = 101.26

Summary

Lumens per Lamp:	2850 (1 lamp)
Luminaire Lumens:	1540.6 lumens
Efficiency:	54.1%
Efficacy:	43.8 lumens/watt
Spacing Criteria (0/90/45):	1.24 / 2.05 / 1.72
Luminous Opening:	Rectangular (W 0.73' x L: 3.76' x H: 0')
CIE Type:	Direct

Input Watts (W):	35.2
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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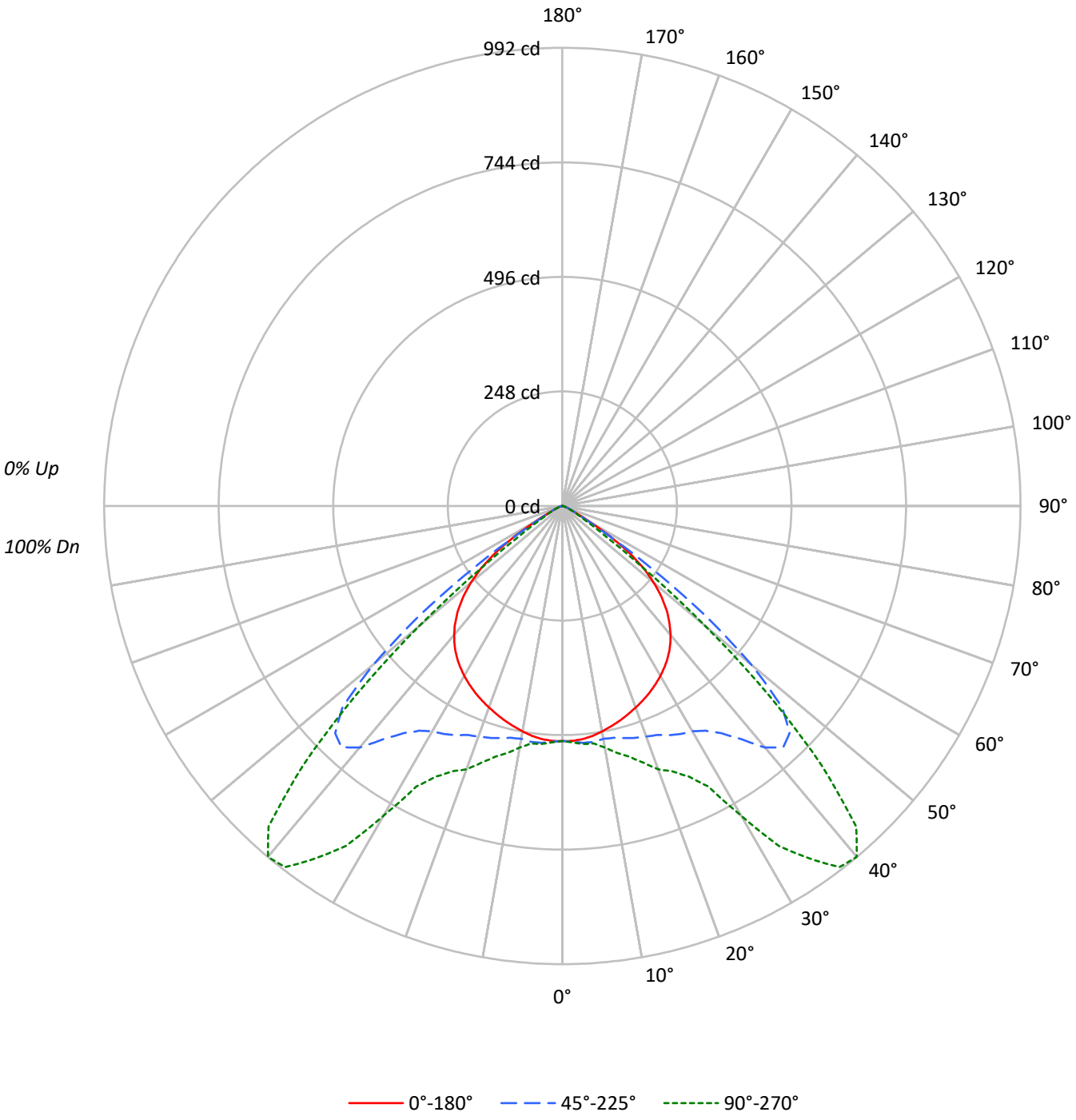
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	64	64	64	64	63	63	63	63	60	60	60	58	58	58	55	55	55	54
1	60	58	57	55	59	57	56	54	55	54	52	53	52	51	51	50	49	48
2	56	52	49	47	55	51	49	46	49	47	45	48	46	44	46	45	43	42
3	52	47	43	40	50	46	43	40	44	42	39	43	41	39	42	40	38	37
4	48	42	38	35	46	41	37	35	40	37	34	39	36	34	38	35	33	32
5	44	38	33	30	43	37	33	30	36	33	30	35	32	29	34	31	29	28
6	41	34	30	27	40	34	29	26	33	29	26	32	28	26	31	28	26	25
7	38	31	26	23	37	30	26	23	30	26	23	29	26	23	28	25	23	22
8	35	28	24	21	34	28	24	21	27	23	21	26	23	20	26	23	20	19
9	33	26	21	19	32	25	21	19	25	21	18	24	21	18	24	21	18	17
10	30	24	19	17	30	23	19	17	23	19	17	22	19	17	22	19	16	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1987	1987	1987
5°	1985	2017	2027
10°	1965	2029	2105
15°	1944	2103	2271
20°	1929	2206	2520
25°	1921	2358	2783
30°	1914	2537	3489
35°	1900	2860	4437
40°	1858	3477	5053
45°	1762	3841	4384
50°	1567	3242	2441
55°	1204	1605	769
60°	543	455	320
65°	202	221	176
70°	126	136	111
75°	87	94	75
80°	61	63	52
85°	31	31	22

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	48.9	3.2	1.7
10°-20°	148.3	9.6	5.2
20°-30°	254.5	16.5	8.9
30°-40°	399.9	26.0	14.0
40°-50°	457.5	29.7	16.1
50°-60°	196.3	12.7	6.9
60°-70°	27.6	1.8	1.0
70°-80°	6.6	0.4	0.2
80°-90°	1.0	0.1	0.0
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	451.7	29.3	15.9
0°-40°	851.6	55.3	29.9
0°-60°	1505.4	97.7	52.8
0°-90°	1540.6	100.0	54.1
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°	1540.6	100.0	54.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	506	508	515	517	517	48
15°	481	494	520	552	562	136
25°	446	474	547	613	646	206
35°	399	456	600	836	931	249
45°	319	440	696	783	794	244
55°	177	294	236	150	113	152
65°	22	26	24	21	19	28
75°	6	6	6	6	5	7
85°	1	1	1	1	0	1
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	508.9	508.9	508.9	508.9	*508.9*
2.5°	509.0	508.5	510.4	512.8	*512.3*
5°	506.5	508.4	514.7	517.4	*517.2*
7.5°	502.0	508.0	515.1	518.1	*518.5*
10°	495.7	504.5	511.9	525.5	*531.0*
12.5°	488.5	499.0	513.9	539.4	*547.4*
15°	481.0	494.0	520.3	552.4	*562.0*
17.5°	472.9	486.0	526.3	564.8	*582.7*
20°	464.3	479.6	531.1	586.3	*606.7*
22.5°	455.4	476.7	536.5	600.6	*621.5*
25°	446.0	474.1	547.4	613.2	*646.2*
27.5°	435.7	470.8	556.6	637.1	*684.4*
30°	424.7	466.7	562.9	678.3	*774.0*
32.5°	412.4	461.6	576.9	761.6	*872.8*
35°	398.7	456.3	600.2	835.5	*931.1*
37.5°	383.0	452.0	635.9	873.7	*985.4*
40°	*364.6*	*449.1*	*682.4*	*898.5*	*991.6*
42.5°	343.4	445.8	708.1	870.3	*941.4*
45°	319.2	440.2	695.7	783.1	*794.1*
47.5°	290.9	432.6	645.4	618.9	*606.4*
50°	258.1	417.0	533.9	447.6	*402.0*
52.5°	221.4	375.2	388.9	279.0	*219.4*
55°	176.9	293.8	235.8	149.5	*113.0*
57.5°	123.2	189.5	115.9	79.0	*63.9*
60°	69.6	97.4	58.3	47.4	*41.0*
62.5°	35.8	45.0	35.6	30.9	*27.4*
65°	21.9	26.1	23.9	21.1	*19.1*
67.5°	15.3	17.5	16.7	14.9	*13.5*
70°	11.0	12.4	11.9	10.6	*9.7*
72.5°	8.0	8.8	8.6	7.6	*7.0*
75°	5.8	6.4	6.2	5.5	*5.0*
77.5°	4.1	4.5	4.3	3.9	*3.5*
80°	2.7	3.0	2.8	2.5	*2.3*
82.5°	1.6	1.7	1.7	1.5	*1.4*
85°	0.7	0.8	0.7	0.7	*0.5*
87.5°	0.1	0.1	0.0	0.0	*0.0*
90°	0.0	0.0	0.0	0.0	*0.0*
92.5°	0.0	0.0	0.0	0.0	*0.0*
95°	0.0	0.0	0.0	0.0	*0.0*
97.5°	0.0	0.0	0.0	0.0	*0.0*
100°	0.0	0.0	0.0	0.0	*0.0*
102.5°	0.0	0.0	0.0	0.0	*0.0*
105°	0.0	0.0	0.0	0.0	*0.0*
107.5°	0.0	0.0	0.0	0.0	*0.0*
110°	0.0	0.0	0.0	0.0	*0.0*

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	*0.0*
115°	0.0	0.0	0.0	0.0	*0.0*
117.5°	0.0	0.0	0.0	0.0	*0.0*
120°	0.0	0.0	0.0	0.0	*0.0*
122.5°	0.0	0.0	0.0	0.0	*0.0*
125°	0.0	0.0	0.0	0.0	*0.0*
127.5°	0.0	0.0	0.0	0.0	*0.0*
130°	0.0	0.0	0.0	0.0	*0.0*
132.5°	0.0	0.0	0.0	0.0	*0.0*
135°	0.0	0.0	0.0	0.0	*0.0*
137.5°	0.0	0.0	0.0	0.0	*0.0*
140°	0.0	0.0	0.0	0.0	*0.0*
142.5°	0.0	0.0	0.0	0.0	*0.0*
145°	0.0	0.0	0.0	0.0	*0.0*
147.5°	0.0	0.0	0.0	0.0	*0.0*
150°	0.0	0.0	0.0	0.0	*0.0*
152.5°	0.0	0.0	0.0	0.0	*0.0*
155°	0.0	0.0	0.0	0.0	*0.0*
157.5°	0.0	0.0	0.0	0.0	*0.0*
160°	0.0	0.0	0.0	0.0	*0.0*
162.5°	0.0	0.0	0.0	0.0	*0.0*
165°	0.0	0.0	0.0	0.0	*0.0*
167.5°	0.0	0.0	0.0	0.0	*0.0*
170°	0.0	0.0	0.0	0.0	*0.0*
172.5°	0.0	0.0	0.0	0.0	*0.0*
175°	0.0	0.0	0.0	0.0	*0.0*
177.5°	0.0	0.0	0.0	0.0	*0.0*
180°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)