

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: 108P150

Luminaire Tested: **2GC-432A19/156-PAF**

Issue Date: 3/3/2020



**Test Information**

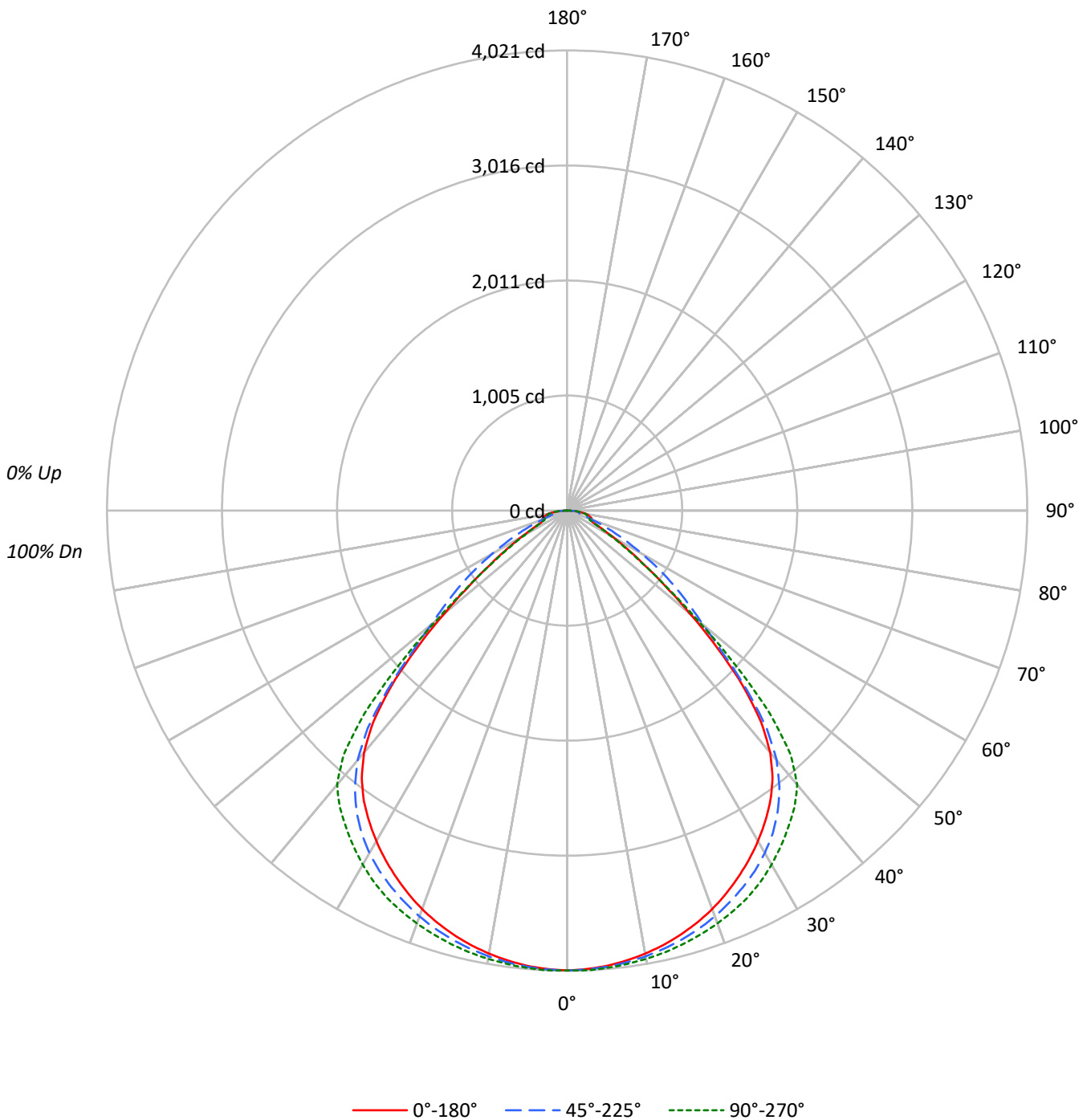
Test Method: LM-41-14  
Report Number: 108P150  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GC-432A19/156-PAF  
Description: 2 X 4 Recessed Convertible Body Luminaire with a  
.156 pattern 19 acrylic lens.  
Light Source: Four - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B432I120RH Electronic - L.O.B.F. = 87.9

**Summary**

Lumens per Lamp: 2800 (4 lamps)  
Luminaire Lumens: 8651.1 lumens  
Efficiency: 77.2%  
Efficacy: 78.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.31  
Luminous Opening: Rectangular (W 1.78' x L: 3.81' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 109.6  
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	92	92	92	92	90	90	90	90	86	86	86		82	82	82		79	79	79	77
1	86	82	80	77	83	81	78	76	78	75	74		75	73	71		72	71	69	68
2	79	74	69	66	77	72	68	65	70	66	63		67	64	62		65	63	61	59
3	73	66	61	56	71	65	60	56	63	59	55		61	57	54		59	56	53	52
4	68	60	54	49	66	59	53	49	57	52	48		55	51	48		54	50	47	46
5	63	54	48	43	61	53	47	43	52	47	43		50	46	42		49	45	42	40
6	58	49	43	38	57	48	43	38	47	42	38		46	41	38		45	41	37	36
7	54	45	39	34	53	44	38	34	43	38	34		42	37	34		41	37	34	32
8	51	41	35	31	50	41	35	31	40	35	31		39	34	31		38	34	30	29
9	48	38	32	28	47	38	32	28	37	32	28		36	31	28		35	31	28	26
10	45	35	30	26	44	35	29	26	34	29	26		33	29	25		33	28	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6370	6370	6370
5°	6353	6367	6383
10°	6327	6365	6402
15°	6294	6367	6434
20°	6251	6366	6475
25°	6184	6353	6525
30°	6104	6323	6539
35°	5990	6209	6524
40°	5711	5891	6472
45°	4889	4983	5613
50°	3450	3815	3654
55°	2247	3139	2205
60°	1455	2384	1363
65°	956	1706	930
70°	1061	1084	978
75°	1255	759	1139
80°	1561	995	1488
85°	1546	1619	1709



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	380.5	4.4	3.4	0°	4019	4019	4019	4019	4019	
10°-20°	1095.4	12.7	9.8	5°	3993	3991	4002	4012	4012	379
20°-30°	1674.1	19.4	14.9	15°	3836	3845	3880	3913	3921	1082
30°-40°	2008.3	23.2	17.9	25°	3536	3563	3633	3706	3731	1629
40°-50°	1748.9	20.2	15.6	35°	3096	3127	3209	3318	3372	1927
50°-60°	941.6	10.9	8.4	45°	2181	2242	2223	2444	2504	1643
60°-70°	454.7	5.3	4.1	55°	813	1088	1136	1082	798	761
70°-80°	248.3	2.9	2.2	65°	255	524	455	532	248	286
80°-90°	99.4	1.1	0.9	75°	205	301	124	306	186	216
90°-100°	0.0	0.0	0.0	85°	85	108	89	103	94	88
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	5
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°	3150.0	36.4	28.1	165°	0	0	0	0	0	0
0°-40°	5158.3	59.6	46.1	175°	0	0	0	0	0	0
0°-60°	7848.8	90.7	70.1	180°	0	0	0	0	0	0
0°-90°	8651.1	100.0	77.2							
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°	8651.1	100.0	77.2							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4019	4019	4019	4019	4019
2.5°	4010	4006	4014	4022	4021
5°	3993	3991	4002	4012	4012
7.5°	3966	3966	3981	3996	3997
10°	3931	3933	3955	3975	3978
12.5°	3888	3893	3921	3947	3953
15°	3836	3845	3880	3913	3921
17.5°	3776	3789	3831	3872	3883
20°	3706	3723	3774	3822	3839
22.5°	3625	3648	3707	3768	3789
25°	3536	3563	3633	3706	3731
27.5°	3440	3469	3550	3632	3658
30°	3335	3365	3455	3542	3573
32.5°	3221	3252	3343	3437	3476
35°	3096	3127	3209	3318	3372
37.5°	2948	2982	3048	3191	3264
40°	2760	2799	2847	3041	3128
42.5°	2511	2554	2579	2808	2889
45°	2181	2242	2223	2444	2504
47.5°	1790	1896	1847	2013	1985
50°	1399	1573	1547	1620	1482
52.5°	1071	1311	1330	1322	1084
55°	813	1088	1136	1082	798
57.5°	616	900	941	893	589
60°	459	748	752	747	430
62.5°	337	623	593	629	321
65°	255	524	455	532	248
67.5°	224	452	333	454	212
70°	229	401	234	398	211
72.5°	225	352	167	351	209
75°	205	301	124	306	186
77.5°	189	250	106	252	172
80°	171	195	109	199	163
82.5°	134	145	110	147	137
85°	85	108	89	103	94
87.5°	37	58	45	54	46
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)