

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: 108P144

Luminaire Tested: **2GC-432A19T/156-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P144
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-432A19T/156-PAF
Description: 2 X 4 Recessed Luminaire with a .156 pattern 19
tinted acrylic lens.
Light Source: Four - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B432I120RH Electronic - L.O.B.F. = 89.5

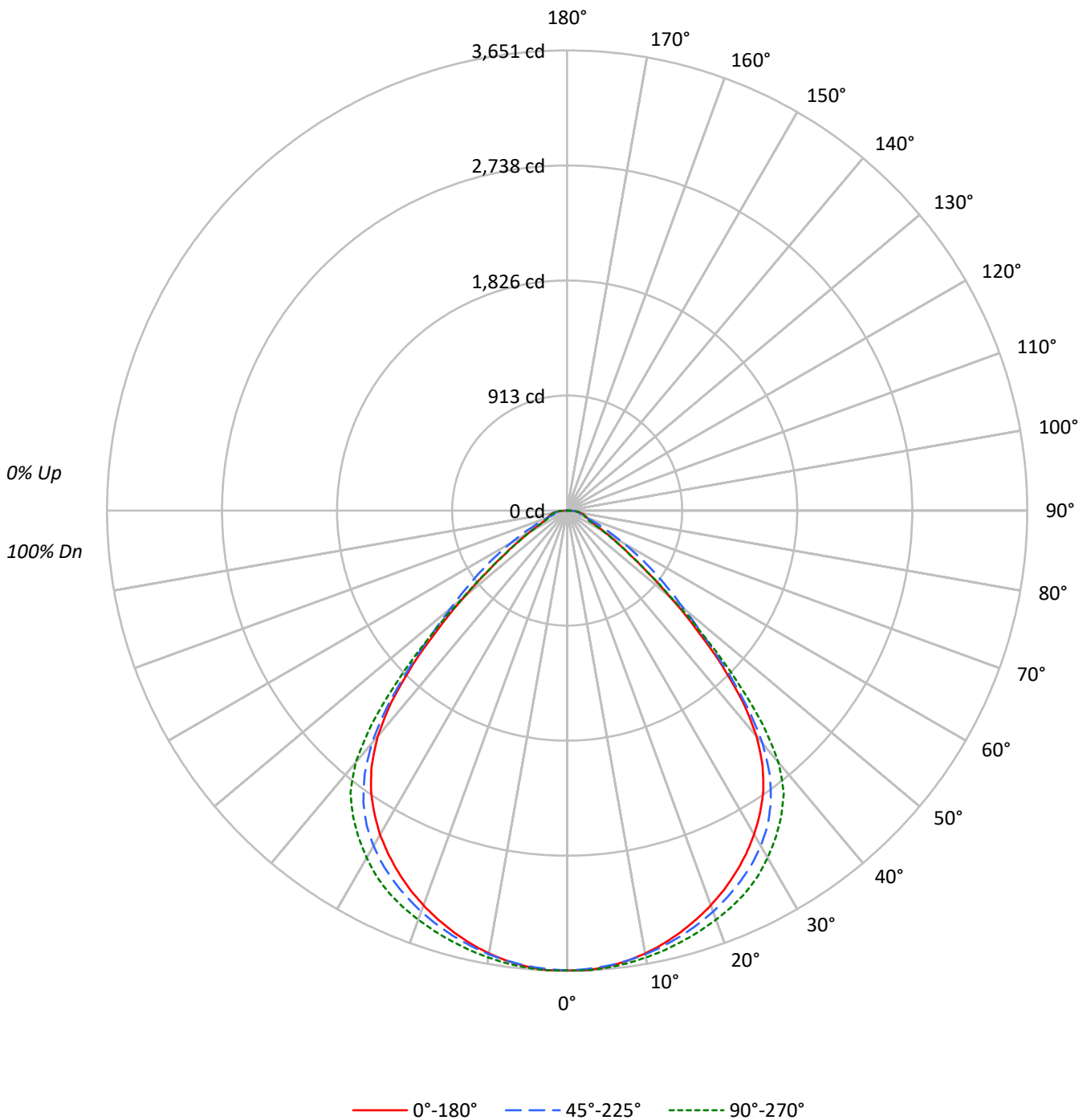
Summary

Lumens per Lamp: 2800 (4 lamps)
Luminaire Lumens: 7182.8 lumens
Efficiency: 64.1%
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.27
Luminous Opening: Rectangular (W 1.79' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 111.9
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	76	76	76	76	75	75	75	75	71	71	71		68	68	68		65	65	65	64
1	71	69	67	65	70	67	65	64	65	63	62		62	61	60		60	59	58	57
2	66	62	58	55	65	61	57	55	59	56	53		57	54	52		55	53	51	50
3	61	56	51	48	60	55	51	48	53	50	47		51	48	46		50	47	45	44
4	57	51	46	42	56	50	45	42	48	44	41		47	43	41		45	43	40	39
5	53	46	41	37	52	45	41	37	44	40	37		43	39	36		42	39	36	35
6	49	42	37	33	48	41	37	33	40	36	33		39	36	33		38	35	32	31
7	46	38	33	30	45	38	33	30	37	33	30		36	32	29		35	32	29	28
8	43	35	30	27	42	35	30	27	34	30	27		33	30	27		33	29	27	26
9	40	33	28	25	40	32	28	25	32	27	25		31	27	24		30	27	24	23
10	38	30	26	23	37	30	26	23	29	25	22		29	25	22		28	25	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5750	5750	5750
5°	5747	5737	5759
10°	5709	5720	5762
15°	5654	5700	5770
20°	5589	5678	5792
25°	5508	5649	5819
30°	5400	5591	5788
35°	5219	5423	5696
40°	4809	4960	5369
45°	3871	3967	4207
50°	2606	2949	2679
55°	1668	2272	1648
60°	1097	1620	1059
65°	761	1107	735
70°	783	746	723
75°	858	645	828
80°	1016	926	980
85°	1229	1266	1229



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	344.9	4.8	3.1	0°	3649	3649	3649	3649	3649	
10°-20°	987.1	13.7	8.8	5°	3633	3623	3627	3638	3641	345
20°-30°	1497.7	20.9	13.4	15°	3466	3467	3494	3525	3537	977
30°-40°	1754.1	24.4	15.7	25°	3168	3186	3249	3320	3347	1458
40°-50°	1385.5	19.3	12.4	35°	2713	2744	2819	2914	2961	1683
50°-60°	676.0	9.4	6.0	45°	1737	1764	1780	1873	1888	1320
60°-70°	302.2	4.2	2.7	55°	607	746	827	752	600	571
70°-80°	161.4	2.2	1.4	65°	204	337	297	331	197	223
80°-90°	73.8	1.0	0.7	75°	141	182	106	175	136	149
90°-100°	0.0	0.0	0.0	85°	68	81	70	84	68	63
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	4
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°	2829.8	39.4	25.3	165°	0	0	0	0	0	0
0°-40°	4583.9	63.8	40.9	175°	0	0	0	0	0	0
0°-60°	6645.4	92.5	59.3	180°	0	0	0	0	0	0
0°-90°	7182.8	100.0	64.1							
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°	7182.8	100.0	64.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3649	3649	3649	3649	3649
2.5°	3650	3639	3641	3650	3651
5°	3633	3623	3627	3638	3641
7.5°	3606	3596	3605	3620	3624
10°	3568	3561	3575	3594	3601
12.5°	3521	3518	3537	3563	3572
15°	3466	3467	3494	3525	3537
17.5°	3403	3408	3443	3483	3498
20°	3333	3342	3386	3435	3454
22.5°	3255	3268	3321	3382	3405
25°	3168	3186	3249	3320	3347
27.5°	3073	3094	3168	3245	3273
30°	2968	2992	3073	3153	3181
32.5°	2848	2876	2960	3041	3078
35°	2713	2744	2819	2914	2961
37.5°	2548	2581	2639	2761	2824
40°	2338	2366	2411	2546	2610
42.5°	2067	2090	2118	2242	2292
45°	1737	1764	1780	1873	1888
47.5°	1384	1437	1460	1515	1468
50°	1063	1150	1203	1207	1093
52.5°	800	922	1000	953	805
55°	607	746	827	752	600
57.5°	461	607	664	595	449
60°	348	495	514	482	336
62.5°	261	407	392	396	253
65°	204	337	297	331	197
67.5°	179	284	220	280	168
70°	170	246	162	239	157
72.5°	154	214	125	206	149
75°	141	182	106	175	136
77.5°	129	146	105	144	121
80°	112	116	102	119	108
82.5°	93	98	90	102	92
85°	68	81	70	84	68
87.5°	29	48	41	54	35
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)